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The JOURNAL OF THE DEPARTMENT of AGRICULTURE VICTORIA - AUSTRALIA

VOL. XXXII PART 9

NATIONAL MUSEUM OF VICTORIA

SEPTEMBER, 1934 Price 3d.

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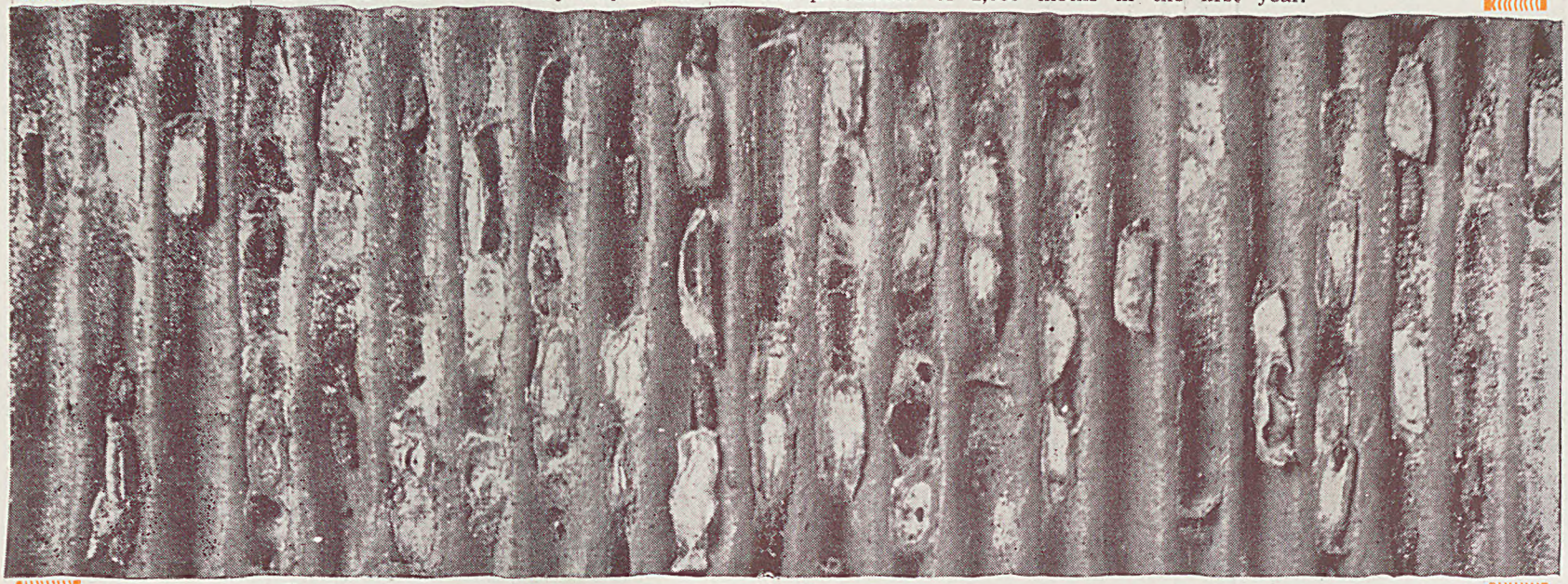

The above photograph shows the (actual size) inner side of an 8-inch section of "Vallo" Patent Codlin Moth Tree Bands in which 60 or more dead grubs or caterpillars can be seen. This, however, does not represent the full number of the kill, as this photograph shows only one set of corrugations. The Band is actually a double trap, as it not only traps the grubs in the corrugations lying immediately next to the trunk of the tree (as shown above), but a similar number are trapped and killed in the second series of small passages which are formed by the smooth outside section of the Band against the corrugated section.

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Issued under the direction of the Hon. J. Allan M.L.A., Minister of Agriculture.

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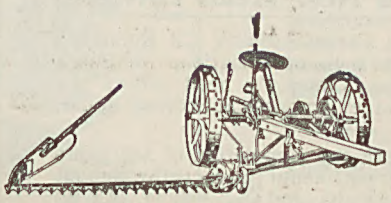

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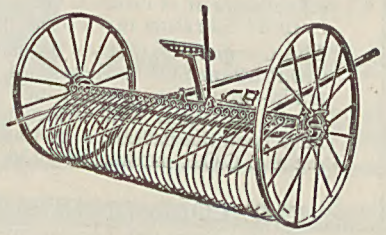

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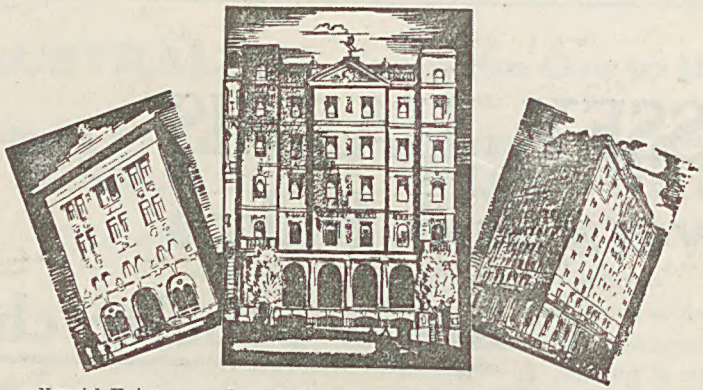

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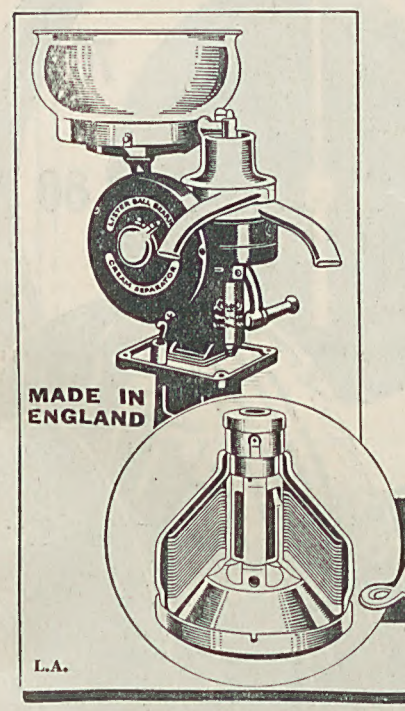

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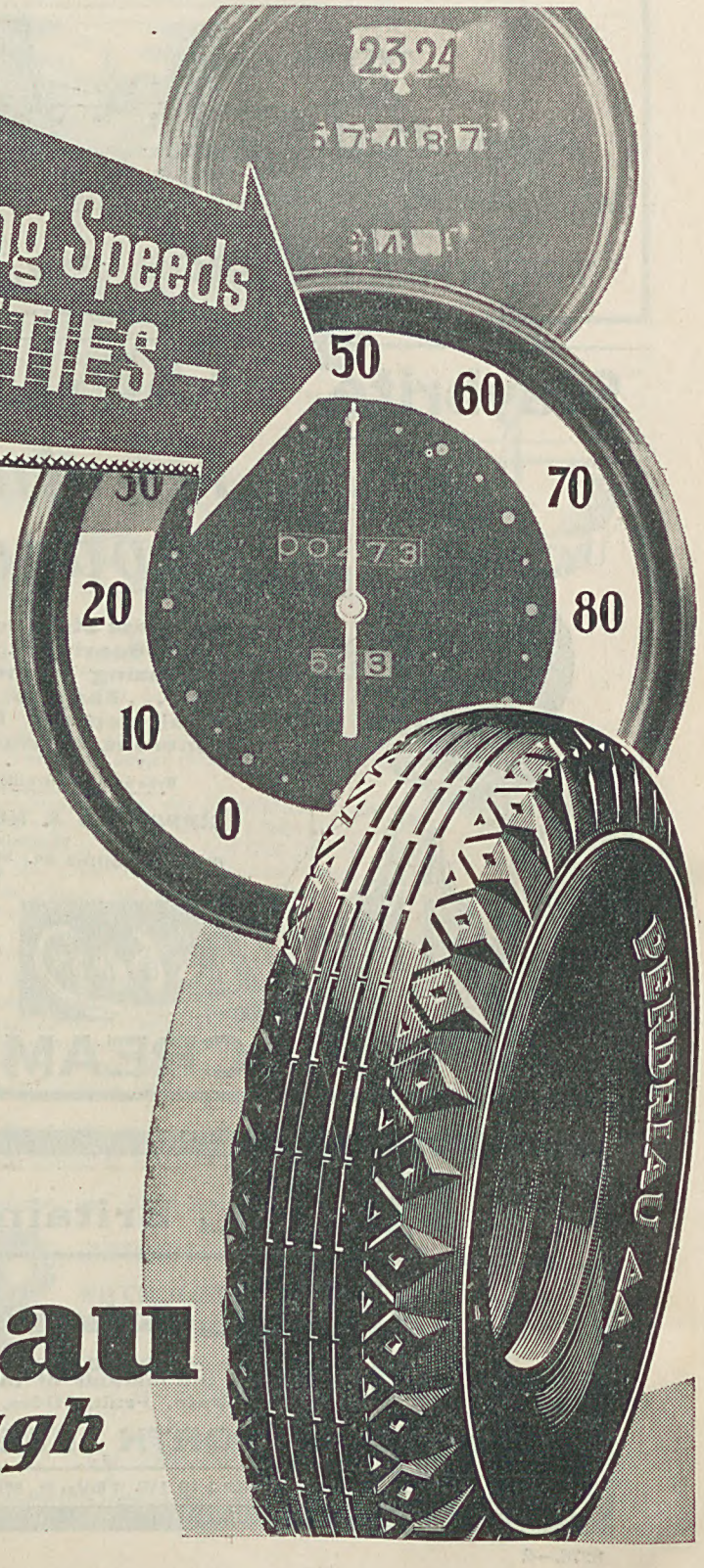

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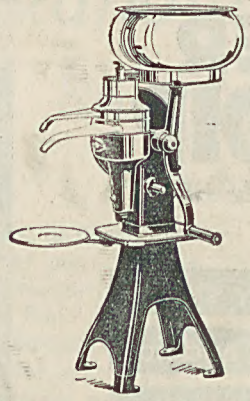
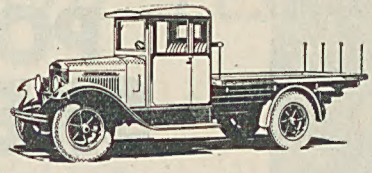
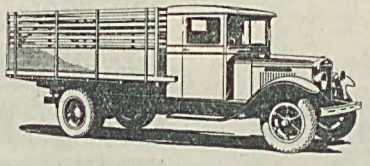


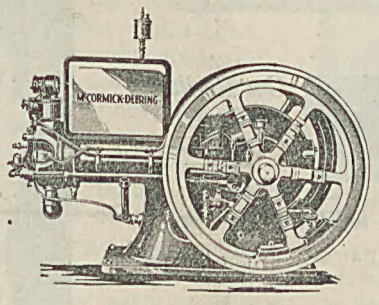
Illustrated above is the McCormick-Deering Ball-Bearing Cream Separator, a quality-built cream separator made in six sizes, with capacities of 35, 50, 75, 90, 120, and 150 imperial gallons. Every model is a genuine ball-bearing machine with high-grade ball-bearings at all high-speed points.



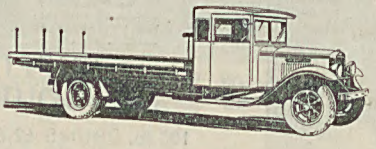
International Model A-2, illustrated above, is a smart, fast-moving speed truck, powered by an economical 4-cylinder engine. With four forward speeds, full-floating rear axle, roller-bearing universals, and many other refinements, this quality-built speed truck is an excellent proposition for town or country work. Available in two wheelbases—136 inches and 160 inches. Capacity, 30 cwt.



Here is another fine speed truck suitable for town and country work. It is International Model B-3, an attractive-looking speed model with a wheelbase of 160 inches and a capacity of 2 tons. Powered by a 6-cylinder valve-in-head engine, with replaceable cylinders and hardened exhaust-valve-seat inserts. Four forward speeds, full-floating rear axle, roller-bearing universals, and other notable features.



This is the McCormick-Deering Kerosene Engine, available in 1½, 3, and 6 h.p. sizes and in stationary and portable types. Enclosed crankcase, replaceable cylinder, gravity-feed mixer, throttle governor, and built-in magneto are among the many notable features of this engine. A quality-built engine that will serve many purposes.



International Model B-4 has plenty of power, plenty of speed, and is capable of giving excellent results under all conditions. It has a capacity of 3 tons and is powered by a 6-cylinder valve-in-head engine, with replaceable cylinders and hardened exhaust-valve-seat inserts. Outstanding features of this model include four forward speeds, full-floating rear axle, roller-bearing universals, &c. Two wheelbases—155 and 185-inch.

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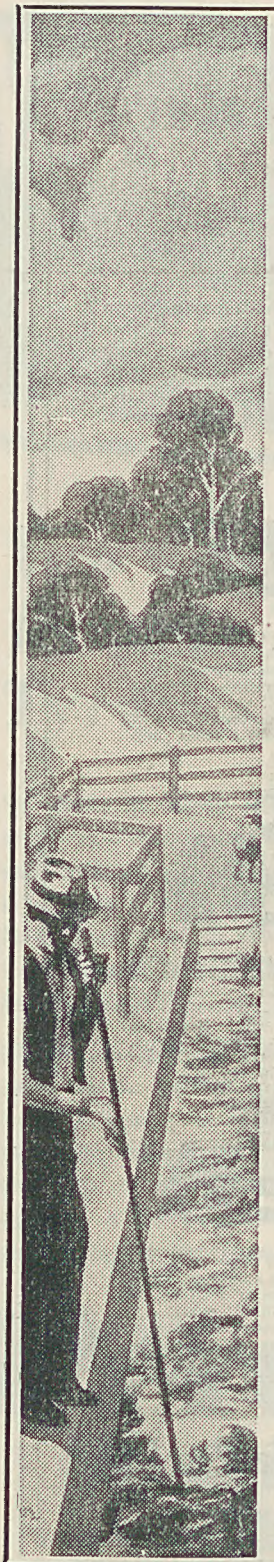

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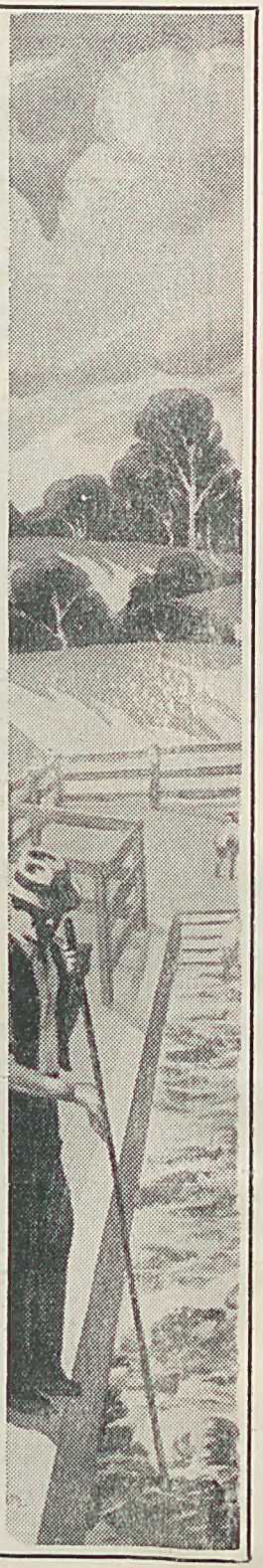


NATIONAL MUSEUM OF VICTORIA

The Journal of the DEPARTMENT of AGRICULTURE of VICTORIA

Standard Herd Test

Report for the Year 1933-34

By A. J. Gill, Senior Herd Tester

THE year 1933–34 has been, perhaps, one of the most difficult for dairying since the inception of the Standard Herd Test. Not only did the price of butter-fat fall lower than that obtained for many years previously, but the weather conditions were such that during the whole twelve months farmers were kept in a state of apprehension. In July prospects were quite satisfactory; then dry conditions set in and during the early spring a drought threatened. Towards the end of November unusually good rains fell but, though late pastures benefited, the early ones did not recover.

The champion cow—Mr. J. V. M. Wood's mature Jersey, "Werribee Fancy Madeira," 698 lb. butter-fat

Following a hot dry summer, there were good autumn rains in the Western Districts and also in Eastern Victoria, and in these localities a good growth of grass resulted. However, the rainfall was irregular in other parts until well into the winter and consequently pastures suffered. The dry spring meant that most farmers had very little chance of storing grass hay, and on many places where, normally, one sees large quantities, last year none at all was cut. The dry winter caused the lack of stored fodder to be felt very keenly and this experience will make them anxious to have sufficient in the future to enable a supply to be carried from year to year. Stored fodder is the farmer's only safe insurance against lean years and if I were called on to suggest a slogan for all stock-owners, it would be "Store more fodder."

The rise in prices for sheep and wool tempted a number of dairymen to change over to work less exacting and offering a better reward. Consequently many good cows have been slaughtered, and one effect of this ere long will be a scarcity of dairy stock.

The Reserve Champion—Mr. T. R. Findlay's jun. four-year-old Jersey, "Leven Brae Queenie," 643 lb. butter-fat.

A change noticed in methods during recent years has been the growing on the farm of all the concentrates required. Many farmers now grow a large variety of grains and crush and mix them, and this makes for economy in feeding. While concentrates and roughage fed in the bails help to offset the lack of pasture, they are not a substitute, a fact very plainly illustrated by the lower yields of last year. Good pasture is necessary for heavy and economical production. No matter how excellent dairy stock may be, their yield will decrease unless they have good grazing.

Satisfactory Records.

While last year's records were not so high as those of the previous year—a particularly favorable one—they may be considered satisfactory. Eleven herds (with allowances) exceeded the 500-lb. standard, and 120 individual cows each gave 500 lb. or more of butter-fat, ten of these yielding over 600 lb., and three over 700 lb.

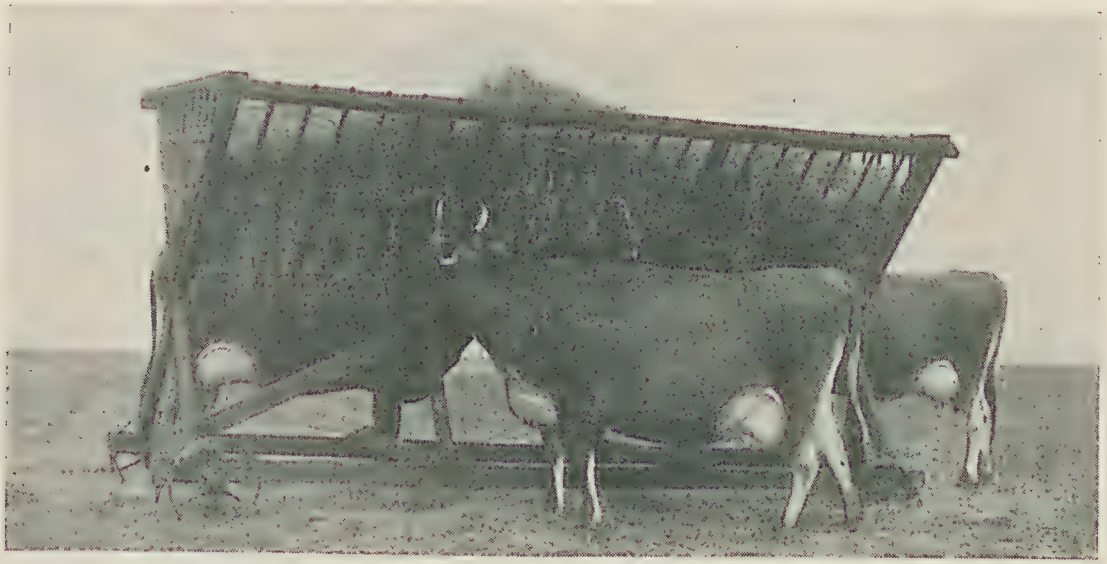
The Champion Cow for the year is Mr. J. V. M. Wood's Jersey, Werribee Fancy Madeira, a mature cow which yielded 697·93 lb. butter-fat in the 273 days test. Sired by the imported bull, Masterpiece, Werribee Fancy Madeira, now eleven years old, has completed six consecutive tests for yields of 486, 512, 647, 626, 592, and 698 lb. butter-fat respectively. Werribee Fancy Madeira calved again in January. Mr. Wood, whose farm is in the Heidelberg District, has a large herd of Jerseys. He is an enthusiastic breeder and has imported many fine specimens from the island. It is pleasing to see such enthusiasm rewarded.

Mr. R. M. Chirnside's mature Jersey, "Air Girlie of the Falls", 657 lb. butter-fat.

The Reserve Champion Cow, Leven Brae Queenie is another Jersey and was bred by her owner, Mr. T. R. Findlay of Leitchville. She is a grand-daughter of Masterpiece, having been sired by Werribee Gay Piece, a son of that great bull. Her yield of 643·05 lb. butter-fat was put up as a junior four-year old. Since then she has completed another test giving 567 lb. butter-fat. Previous tests are—423 lb. as a junior two-year old and 553 lb. as a junior three-year old. Mr. Findlay, who was formerly employed by the Railways Department, has a small compact irrigation block, and for some years he has been quietly building up a very find herd. The steady increase in the production of this herd marks him as a successful breeder.

Mr. R. Mailer's mature Jersey, "Coolwoola Montrose Pearl's Girl," 559 lb. butter-fat.

The highest producer in this year's test was Darenth Black Rose, a mature Friesian, owned by Messrs. E. L. Smith and Sons of Woodend. This cow, which was sired by Springfield Champion, yielded 710·35 lb. butter-fat, but as she failed to calve again within the stipulated fifteen months she forfeited the championship. Other cows that gave higher yields than the champion, but failed to calve again in the



A convenient type of hay-rack used on Mr. R. M. Chirnside's property.

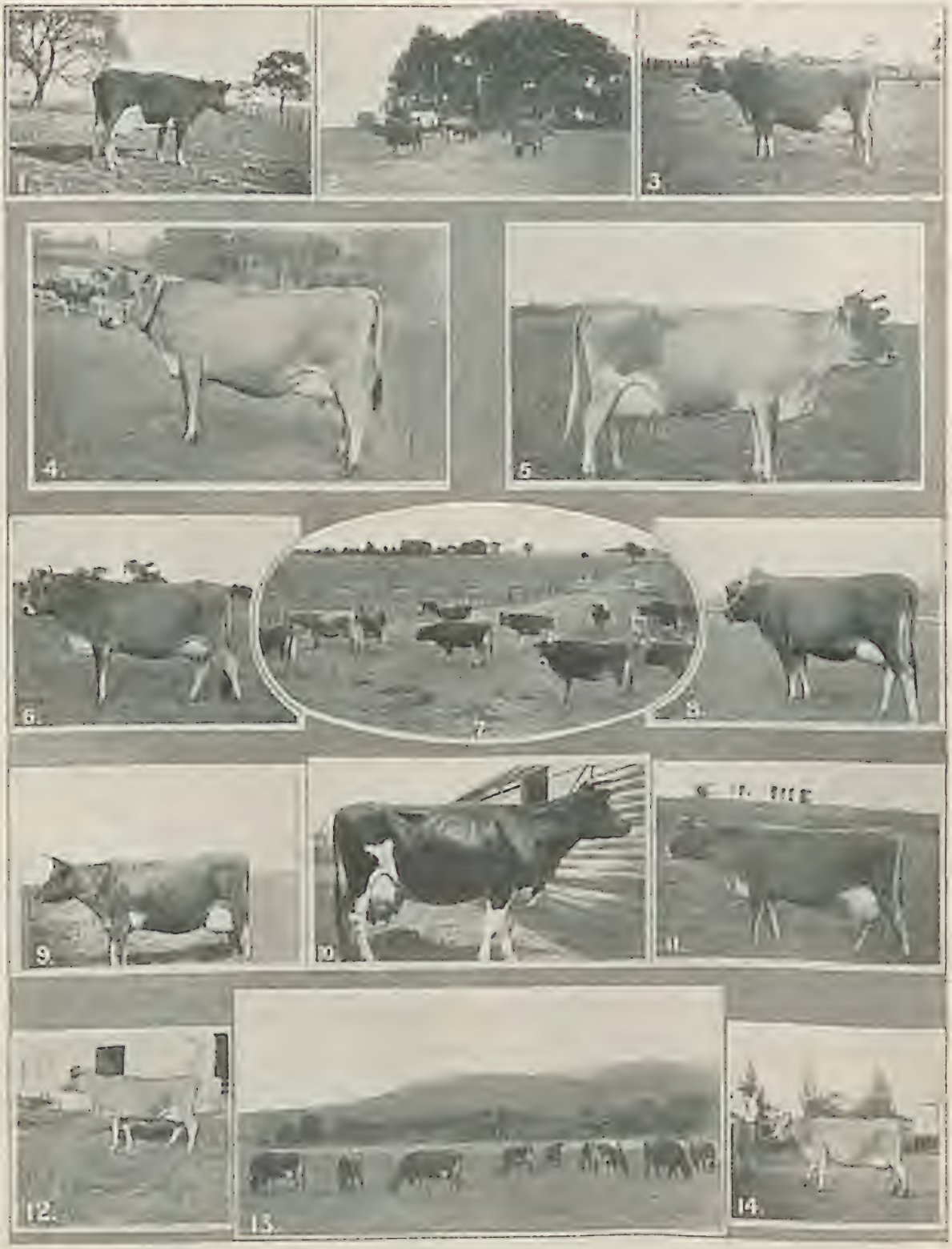
required time, were Dr. R. Mailer's Jersey, Pearl's Girl of Coolwoola, which returned 707 lb., and Mr. T. Hore's mature Friesian, Eurobin Oakwood Eclipse, with a yield of 702 lb. butter-fat. After the champion cow Werribee Fancy Madeira, 698 lb., came Mr. R. M. Chirnside's mature Jersey, Air Girlie of the Falls, which yielded 657 lb. butter-fat, but failing to calve within the prescribed time, she forfeited the Reserve Championship to Mr. Findlay's Leven Brae Queenie. It is rather remarkable that so many leading cows failed to calve in time this year, and certainly this has been disappointing to the breeders concerned. The trouble may be due to some extent to the abnormal season through which we have passed, though it is noticeable that heavy producing cows are somewhat inclined to be shy breeders.

The Champion Herd Prize has been won by Mr. P. J. Maloney, whose herd of ten Jerseys (with allowances) averaged 560.29 lb. butter-fat in 273 days—a very creditable performance. Mr. Maloney has won the Champion Herd Prize on two previous occasions. When some years ago he entered the Standard Herd Test with two pure-bred Jersey cows, the superiority of the pure stock so impressed him that he set to work to build up an entirely pedigreed herd. All his grade cows were sold gradually and replaced one by one with pure-bred animals. Both Mr. and Mrs. Maloney were keen judges of stock and knew the treatment their individual cows required. In a few years their herd was amongst the leading ones of the State, and in 1927–28 and again the following year it won the coveted award of Champion Herd of Victoria.

Mr. Maloney later sold the herd and while on a visit to the Island of Jersey purchased two Jersey bulls and two cows. The cows proved themselves heavy producers, and from these and the calves imported in utero, he is building up another herd. His success is a remarkable example of what a man with ability and energy can do in spite of occasional misfortunes, and both Mr. and Mrs. Maloney are to be warmly congratulated on once more attaining first place.

Mr. Maloney's farm is an irrigation block subdivided into paddocks of from three to five acres—some given up to lucerne and others to pasture. A portion of about eight acres is reserved for oats; the seed is sown in the early autumn and helps to provide winter grazing. In the spring the cattle are shut off and the crop is allowed to run into ear and is cut for hay.

Mr. Maloney pays particular attention to the necessity for good natural feed for his cows so that at all times they can get a good meal without wandering far for it, and he believes that 90 per cent. of his success is due to the provision of ample grazing. The concentrates used throughout the year are chiefly crushed oats and bran with a small quantity of linseed meal. When the cows are turned into a fresh paddock, only a very small quantity of concentrates is fed for the first day or two, the amount being increased as the pasture is eaten down. Next year a number



Some Leading Cows.

(*See opposite page.*)

of heifers by one of the imported bulls will be in the herd, and it is expected that the farm will then be carrying one cow to the acre.

Each year the paddocks are top-dressed with superphosphate at the rate of 180 lb. to the acre and harrowed. One ton of hay for each animal on the farm is stacked annually; this is fed through the winter months and every cow is kept in good condition.

The Reserve Champion Herd belonging to Dr. Ramsay Mailer is kept on his farm at Tallygaroopna, ten miles from Shepparton. This farm is subdivided into paddocks of from one and a half to twelve acres, which are top-dressed annually with 1 cwt. superphosphate to the acre, and most of them are irrigated. Lucerne is grown on about one-fourth of the area and the remainder is under pasture. Silage is made each year from self-sown crops and a quantity of hay is stacked. Concentrates are fed in the bails and the cows are kept in very fine condition.

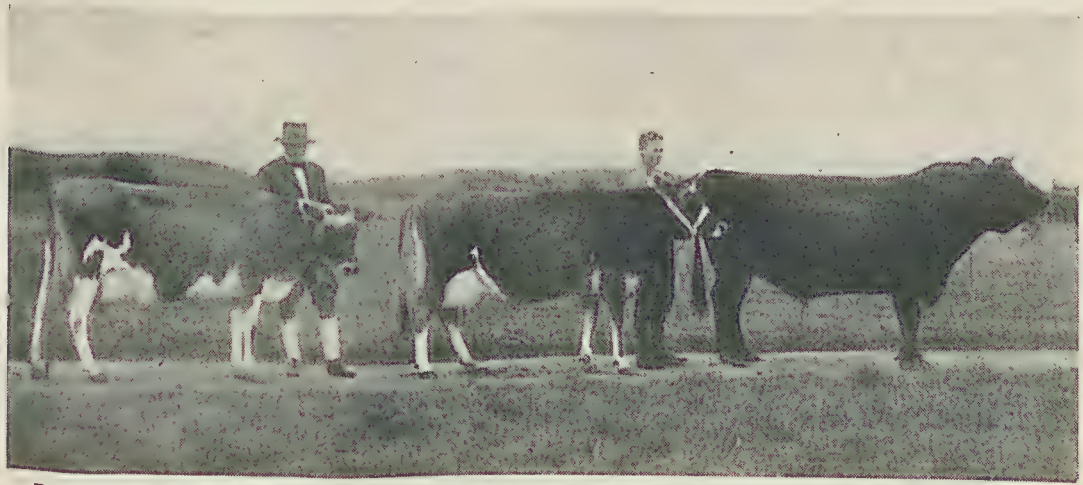
LEADING COWS

(See plate on opposite page.)

1. M. T. Hore's mature Friesian, "Eurobin Oakwood Eclipse," 702 lb. butter-fat; 2. Some of P. J. Maloney's herd; 3. R. M. Chirnside's sen. three-year-old Jersey "Werribee Stella Princess," 574 lb. butter-fat; 4. E. J. Vagg's jun. three-year-old Jersey, "Jerseyinn Edith 2nd," 608 lb. butter-fat; 5. T. R. Findlay's jun. four-year-old Jersey, "Leven Brae Queenie," 643 lb. butter fat.; 6. N. H. Enders' sen. two-year-old Jersey "Rintoul View Moleen," 588 lb. butter-fat; 7. P. J. Maloney's champion herd; 8. J. V. M. Wood's jun. two-year-old Jersey "Clarendon Eyre Belladonna 2nd," 485 lb. butter-fat; 9. W. J. Wade's mature Jersey "Aveley Marie Antoinette 2nd, 607 lb. butter-fat; 10. F. L. Smith and Sons' mature Friesian "Darenth Black Rose," 710 lb. butter-fat; 11. J. V. M. Wood's mature Jersey "Werribee Fancy Madeira," 698 lb. butter-fat; 12. J. Hutchinson and Sons' mature Jersey "Wynette of Somerville," 621 lb. butter-fat; 13. Some of R. M. Chirnside's Jersey herd; 14. Dr. R. Mailer's mature Jersey "Pearl's Girl of Coolwoola," 707 lb. butter-fat.

Dr. Mailer's farm is situated on the banks of the Goulburn, the country running back from the river being almost dead level and suitable for irrigation. Great trouble has been taken in the laying out of the place, the shed, silos, dairy, and pigsties being built of concrete blocks. An attractive flower garden flourishes on either side of the cowshed, while in front of the pigsty is another attractive flower-bed. This is something new on dairy farms and certainly adds to the beauty of the surroundings, and there is no reason why flowers and shrubs should not be used more often to assist in taking away the drab appearance of our out-buildings.

A large quantity of fodder is conserved on this farm in the shape of silage all of which is made from grasses and clovers. The silo close to the shed holds 80 tons, and in addition to this, several stacks of silage are made. Though the winter is almost over there are still four stacks of grass silage in reserve. The storing of fodder has



R. M. Chirnside's "Werribee Princess Satisfaction," "Bruce Vale Northwood Madeira 2nd," and "Werribee Prince Madeira."

played a big part in the success of this farm. In addition to his Jerseys, Dr. Mailer keeps two flocks of stud sheep on his farm, one of Suffolks and one of Dorset Horns, sheep having been imported from England to raise the quality to a high standard.

Mr. R. M. Chirnside's herd gained third place. This farm is situated at the foot of the Plenty Ranges in hill and flat country with a rainfall of approximately 30 inches a year. The paddocks, all nicely cleared, are about 20 acres in size, and in each there are brick and cement water-troughs, for Mr. Chirnside realizes the value of a good supply of clean drinking water for milking cows. The paddocks are sown down with rye-grass, cocksfoot, and clover; they are top-dressed annually with 100 lb. superphosphate and 6 cwt. of lime per acre. The pastures are harrowed twice a year. Meadow hay is stacked for winter use.

Though he has been breeding for only a few years Mr. Chirnside has a very find herd. The present sire is Werribee Prince Madeira, but it is intended to introduce a half-brother, Werribee Madeira Ace, and in a few years, the herd will furnish a very interesting example of line breeding.

Fourth place was awarded to Mr. T. J. Edwards, of the Sale district. He is quite a young breeder and it is very pleasing that he has attained a leading position so quickly.

Another comparatively young breeder is Mr. O. Ronalds, of Jindivick. Well up in the herd averages for some time, he has now forged his way into fifth place. Like Mr. Edwards, Mr Ronalds is proving that he is a capable stock breeder and good farmer, and both should win honours in future tests.

When fixing the herd allowances this year, where a cow completed two lactation periods in the one year, the last period only was considered; in future when computing the averages and deciding the competition for the Champion Prize, the higher record will be accepted.

Other changes decided on are that when seven tests or more have been made before any cow is sold, they will be taken into account when computing the average yield of the herd to which she has been transferred. No purchaser, however, shall be credited with the total production of any cow unless she has been tested in his herd for at least the three last lactation sub-periods of the test.

The records this year provide several examples of the value of good pasture, top-dressing, and fodder conservation. Fodder conservation is necessary for successful stock raising and, as a general rule, silage is the best form in which to store fodder for the dairy herd. Many people think that an overhead silo and considerable skill are required for the making of silage, but this is not so. The erecting of expensive silos is not necessary and of late years experiments have shown that stack silage of excellent quality can be made from grasses, oats, and in fact, any of the cereal crops with the possible exception of rye, which does not make a palatable silage. Maize, of course, gives the heaviest yield per acre, but this crop cannot be grown successfully in some of our drier areas, but wherever dairying is carried out, oats can be grown and there is no reason why every dairyman in our drier areas should not have one or more stacks of succulent oaten silage to tide him over the drier periods. If a dairy farmer can stack two tons of hay or six tons of silage per cow, he has good insurance against periods of shortage.

Highest Yields in Respective Classes.

Junior 2.—Clarendon Eyre Belladonna 2nd (Jersey), 485·15—Owner, J. V. M. Wood, Heidelberg.

Senior 2.—Rintoul View Moleen (Jersey), 588·29—Owner, N. H. Enders, Stanhope.

Junior 3.—Jerseyinn Edith 2nd (Jersey), 607·82—Owner, E. J. Vagg, Leongatha.

Senior 3.—Werribee Stella Princess (Jersey), 574·49—Owner, R. M. Chirnside, Whittlesea.

Junior 4.—Belgonia Peggy 6th (Jersey), 643·48—Owner, P. J. Maloney, Tongala.

Senior 4.—Maneroo Kitty's Lass 2nd (Jersey), 575·87—Owner, Dr. R. Mailer, Shepparton.

Mature, 1.—Darenth Black Rose (Friesian), 710·35—Owner, E. L. Smith and Sons, Woodend.

Mature, 2.—Pearl's Girl of Coolwoola (Jersey), 707·14—Owner, Dr. R. Mailer, Shepparton.

Mature, 3.—Eurobin Oakwood Eclipse (Friesian), 701·87—Owner, M. T. Hore, Horfield.

Mature, 4.—Werribee Fancy Madeira (Jersey), 697·93—Owner, J. V. M. Wood, Heidelberg.

New Entries.

C. Boyes, Leucva West (Jersey); A. J. Calf, Werribee South (Jersey); A. Christie, Yea (Jersey); F. Collings, Learmonth (Red Poll); J. R. Flegg, Kerang (Jersey); A. Garden, Swan Hill (Red Poll); J. W. Goddard, Jumbunna (Ayrshire); R. T. Hardie, Leitchville (Illawarra); H. McD. Hutchison, Yan Yean (Jersey); G. Junor, South Morang (Illawarra); D. Longmuir, Tyabb (Jersey); A. Meier, Kilmore (Jersey); C. J. Moody, Koo-wee-rup (Jersey); E. A. Somers, Longwarry (Jersey); A. and W. Shearman, Darnum (Jersey); R. W. Smith and Son, Murraydale (Friesian); D. W. Watson, Catani (Jersey).

Herd Averages, 1933-34

Owner.	Breed.	Junior 2-year-old.		Senior 2-year-old.		Junior 3-year-old.		Senior 3-year-old.		Junior 4-year-old.		Senior 4-year-old.		Mature.		Total Herd.	Average without allowances.	Average with allowances.
		No.	Average.	No.	Average.	No.	Average.	No.	Average.	No.	Average.	No.	Average.	No.	Average.	No.		
1. Maloney, P. J.	Jersey	4	412·59	..	..	1	416·94	1	572·95	..	..	..	..	4	585·65	10	498·29	560·29
2. Mailer, Dr. R.	,,	4	386·43	4	459·26	1	587·94	5	431·17	6	461·42	2	525·47	2	633·01	24	467·17	543·33
3. Chirnside, R. M.	,,	10	369·81	3	456·01	2	445·19	2	541·37	2	612·68	1	341·34	5	527·48	25	449·73	537·43
4. Edwards, J. T.	,,	2	392·87	3	427·01	..	..	2	446·19	1	467·11	1	539·66	1	514·91	10	448·08	520·08
5. Ronalds, O.	,,	1	374·06	1	526·50	2	451·29	1	409·15	2	455·99	3	482·19	..	..	10	457·08	515·08
6. Read, J. D.	,,	4	371·98	..	..	3	465·18	4	399·48	..	..	3	461·40	7	528·17	21	455·37	514·44
7. Enders, N.	,,	5	360·24	5	471·01	4	453·61	3	442·09	4	427·10	..	..	9	447·56	30	434·45	508·11
8. Wood, J. V. M.	,,	10	351·19	1	404·36	4	415·35	4	419·53	4	443·67	1	475·14	5	536·10	29	420·21	505·06
9. Findlay, T. R.	,,	4	346·54	1	457·25	2	405·18	..	..	1	643·05	2	440·14	1	480·54	11	423·42	503·47
10. Noble, T. M. and Son	,,	6	364·30	1	466·66	1	438·82	2	466·70	2	474·63	1	386·66	2	472·28	15	420·34	502·51
11. Itzerott Bros.	,,	2	349·61	6	420·05	..	..	4	407·83	1	475·25	..	..	2	482·81	15	419·45	501·61
12. Bidgood, F. (late)	,,	5	340·10	2	378·98	1	480·83	..	..	1	465·48	2	526·13	10	482·64	21	442·07	498·29
13. Department of Agriculture	Friesian	6	377·96	..	..	1	346·78	1	479·84	1	454·15	1	500·38	5	472·45	15	427·41	496·24
14. Findlay, G.	Jersey	..	..	3	397·68	1	396·31	1	448·26	1	416·03	3	496·55	3	426·53	12	435·24	486·24
15. Hutchinson and Sons	,,	4	296·24	1	399·08	..	..	2	444·39	1	444·09	1	480·09	6	503·61	15	427·91	486·07
16. Broad, A. A.	,,	6	313·94	4	357·68	2	387·04	2	477·42	2	403·80	2	455·16	3	507·98	21	394·53	477·41
17. Watts, J. S.	,,	3	340·79	1	418·95	1	329·15	..	..	..	..	1	425·71	4	491·02	10	416·03	472·03
18. Smith, G. and W.	,,	9	345·80	..	..	1	352·93	3	462·10	4	396·69	1	348·31	..	..	18	377·03	470·47
19. Harvey, T.	,,	1	277·01	3	338·36	..	..	3	385·88	..	..	2	449·18	9	473·45	18	422·73	467·29
20. Atkinson, W. K.	Dairy Shorthorn	3	298·47	1	418·95	5	406·71	7	369·81	1	547·74	1	402·95	18	439·68	36	411·07	466·29
21. Boyes, C. H.	Jersey	4	350·16	2	375·77	..	..	1	487·04	2	334·09	1	427·37	2	464·60	12	388·66	464·60
22. Austin, F.	,,	2	273·69	1	311·47	2	366·11	2	439·87	1	422·84	..	..	2	529·98	10	395·36	461·36
23. Chadderton, J. E.	,,	3	307·31	..	..	1	407·30	2	367·04	1	490·36	1	407·15	4	444·00	12	394·74	452·40
24. Raleigh, H. E. (Miss)	,,	4	311·86	2	456·78	1	236·21	..	..	1	542·87	..	..	3	388·59	11	373·26	451·48
25. Knowles, T. and Son	Ayrshire	6	323·84	1	302·47	6	334·64	2	437·22	2	461·00	..	..	3	397·76	20	362·15	447·15
26. Vagg, E. J.	Jersey	..	..	1	339·32	4	409·12	2	337·93	..	..	1	423·73	3	405·14	11	390·07	446·48
27. Atherton, W. H.	,,	2	381·36	4	314·09	2	323·19	..	..	2	395·15	1	366·38	9	443·76	20	390·35	445·35
28. Desmond, J. J.	,,	4	271·18	2	364·87	3	349·33	..	..	..	..	..	..	4	472·49	13	365·57	442·84
29. Nicholas, A. M.	,,	10	316·53	3	314·62	1	280·81	1	371·80	2	380·00	..	..	7	438·30	24	357·91	441·58
30. Gay, R. G.	,,	4	306·34	1	342·08	..	..	..	..	2	424·95	1	404·15	6	419·25	14	381·21	436·78
31. Holbing, L. W. C.	,,	6	295·08	..	..	1	356·30	2	404·04	..	..	..	..	3	428·33	12	351·65	434·32
32. Dobson, R. J. M.	,,	3	303·21	3	352·02	2	336·01	..	..	..	..	1	342·87	4	411·68	13	355·95	427·06
33. Axford, W. H.	,,	3	270·08	..	..	4	369·24	5	372·84	5	360·80	1	370·14	16	400·21	34	374·38	426·68
34. Mesley T. (Estate of the late)	,,	3	285·58	1	287·27	1	397·79	..	..	2	404·14	1	450·49	4	396·28	12	365·47	424·81
35. Gorman, A. W.	Ayrshire	1	223·81	1	304·53	3	339·29	1	371·31	..	..	2	410·83	3	437·73	11	368·40	424·80
36. Lyon, C. G.	Jersey	4	276·65	3	305·90	2	357·79	2	386·09	..	..	..	..	13	409·76	24	368·29	424·45
37. Esler, G.	,,	2	307·47	2	281·93	..	..	3	396·72	4	397·17	..	..	3	365·72	14	361·05	423·77
38. Cox, A.	,,	7	272·37	2	337·25	7	375·37	..	..	4	354·26	2	345·71	11	388·12	33	351·10	422·15
39. Clyne and Sons	,,	9	251·97	3	312·09	4	349·32	6	372·15	5	399·94	..	..	20	377·68	47	348·67	420·25
40. Vaughan Bros.	,,	4	275·29	1	379·80	4	339·92	2	425·69	2	427·74	3	303·42	3	393·07	19	349·31	419·87
41. Dookie Agricultural College	Ayrshire	..	..	1	298·69	1	422·70	5	364·37	1	293·15	1	428·57	2	357·85	11	361·88	416·47
42. Black, A. J. (Mrs.)	Jersey	1	325·88	..	..	1	342·92	2	327·37	2	410·81	3	362·36	2	412·61	11	368·86	416·18
43. Smith, E. L. and Son	Friesian	5	296·10	1	217·73	1	328·69	..	..	..	..	1	372·31	3	432·64	11	336·10	414·33
44. McNabb, G. A. and Son	Jersey	12	255·30	3	309·55	5	330·46	4	343·47	1	324·11	6	407·52	17	375·82	48	337·01	413·93
45. Smith Bros.	,,	9	263·21	4	317·05	3	307·24	5	321·71	2	363·30	1	360·49	11	408·39	35	335·62	413·69
46. Huffer, J. A.	,,	5	262·00	1	199·45	3	323·06	3	350·23	4	348·63	5	369·89	13	409·71	34	355·87	413·46
46. Tomasetti, B. G.	Ayrshire	4	252·81	..	..	4	385·16	..	..	4	359·44	1	358·98	3	386·27	16	344·21	413·46
47. Hurrey, W. H.	Jersey	7	300·82	..	..	2	423·26	1	391·34	1	361·25	2	324·82	7	364·55	20	345·32	412·32
48. Ballarat Orphanage	,,	8	271·12	5	291·41	1	374·79	..	..	4	318·50	1	295·45	5	436·38	24	323·00	406·67
49. Black, I. S.	Ayrshire	5	312·38	1	294·74	..	..	..	..	3	363·29	..	..	4	346·67	13	334·24	403·82
50. Foster Bros.	Jersey	4	259·22	3	294·03	3	326·46	3	412·98	4	348·14	1	267·13	8	364·33	26	335·06	401·14
51. Woodmason, W.	,,	7	279·95	..	..	2	394·86	..	..	1	309·04	1	334·16	5	364·04	16	325·80	400·05

The Standard Herd Records for the Fourth Quarter of the Test are on pages 463 to 488.

Irrigated Pastures

Influence of Grazing

By E. T. Beruldsen, B.Sc.(Agric.), Irrigation Field Officer, and A. Morgan, B.Agr.Sc., Weeds Research Officer

ECONOMIC utilization of pasture herbage has exercised the minds of both farmer and research worker alike ever since pasture improvement has developed into a problem of nation-wide interest. The ever-increasing use of better strains of pasture species in the establishment of pastures, and the employment of better cultural practices, notably with regard to top-dressing with suitable fertilizers, and in the irrigation districts with regard to better watering methods, have had a very important bearing on the progress of pasture improvement during the last decade. But, quite frequently, it has been demonstrated that to some extent this improvement has been offset by slipshod management in regard to grazing. For the development of better grazing methods, a knowledge of arbitrary means of forcing stock to eat the herbage (as exemplified by subdivision of paddocks, and rotational grazing) should be gained, and, in addition, the differential grazing habits of horses, cows, and sheep need study so that the information derived may be applied to the problem of maintaining a satisfactory botanical composition and uniformity of growth throughout the pasture.

In a general way it is well known that horses are the most, while cattle are the least, fastidious grazing animals, and that sheep generally prefer a short bite. However, very rarely has the farmer an opportunity to judge or measure the amount of waste which may occur through the varying grazing tendencies of these different classes of stock. Such an opportunity presented itself at the State Research Farm, Werribee, in that certain irrigated paddocks were almost entirely reserved for grazing by brood mares and foals, others for dairy cattle, and a few for sheep alone.

Portions of two adjacent irrigated pasture paddocks established about eighteen years ago are shown in Fig. 1. The paddock on the left of the dividing fence had been devoted almost entirely to horse-grazing, and in consequence had developed an irregular character, while that on the right had been entirely devoted to hard and intermittent

Fig. 1.—Two irrigated pastures which have been grazed by—Left, horses; right, sheep. Note the irregular character of the pasture in the horse paddock.

Fig. 2.—Horse-paddock, showing patches of herbage which have been lightly grazed or neglected.

grazing by sheep for the last four years subsequent to mixed grazing for the earlier period. Prior to the institution of a rotational grazing trial with sheep, the latter paddock was rough in appearance, though not to the extent shown by the horse paddock.

Both pastures, having been established from approximately the same seeds mixture, were similar with the exception that Kentucky blue grass, although occurring in small patches, was not sown in the horse paddock. At the present time, the species common to both paddocks are perennial rye-grass, cocksfoot, Kentucky blue grass, and white, strawberry, and subterranean clovers.

The development and relationship of these different species vary, and prairie grass is a conspicuous feature of the lightly grazed areas in the horse paddock. The patchiness of the herbage in the horse paddock was in marked contrast to the appearance of the pasture grazed by sheep alone. It is not necessary to use a rotational grazing field to illustrate the point, but in this case it was convenient for a photograph.

At the outset of this investigation there were three main questions to answer:—

(1) How much of the pasture is effectively grazed?

(2) Are the effectively grazed areas permanent in location, or do the patches, over a comparatively short period, alternate between being neglected and being grazed short?

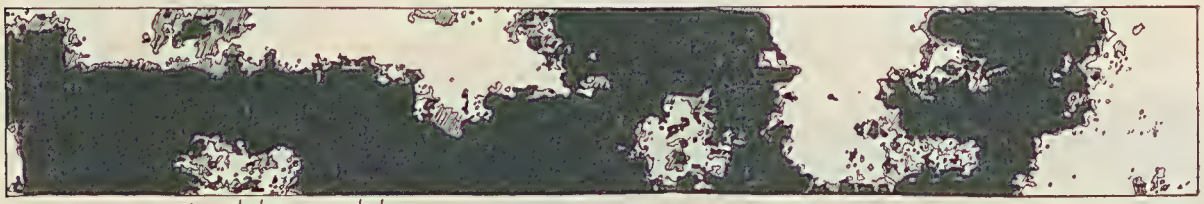
(3) What are the relative merits of horses, cows, and sheep in the economic utilization of pasture?

Investigations in Horse Paddock.

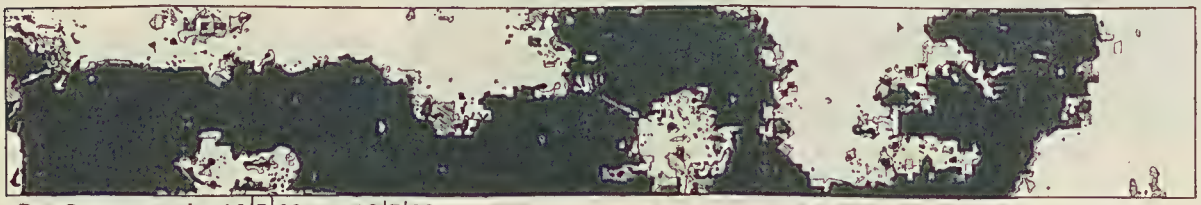
In order to investigate these problems in a sufficiently accurate manner, and yet to avoid devoting a disproportionate amount of time to the work, it was decided to adopt a system of charting on a fully representative area of each type of pasture in the paddock. As the patches of short and long herbage in the horse paddock were comparatively large, sometimes more than 2 square chains in extent, it was necessary that a rather large area should be charted in order to obtain a truly representative sample. One acre was chosen arbitrarily as a suitable area. A rectangular piece of ground 8 chains by $1\frac{1}{4}$ chains was defined by permanent pegs, sunk to ground-level, at intervals of 1 chain along each side and at $\frac{1}{4}$ chain intervals along the ends. At each survey, temporary pegs were lined up with these, dividing the acre into 40 sections, each 1 chain by $\frac{1}{4}$ chain.

A wire mesh, as shown in Fig. 3, was then constructed. Two lengths of chain, each 1 chain in length, constructed of strong pieces of fencing-wire each 5 links long, were laid on the ground approximately parallel; cross-wires 5 links in length were hooked into the loops joining the links of the long chains, and the end loops of the latter were hooked on to a light wooden bar at each end, forming a mesh of 20 squares, each 5 links by 5 links. When not in use, the cross-wires could be detached, the chains folded, and the whole mesh packed into a conveniently - sized

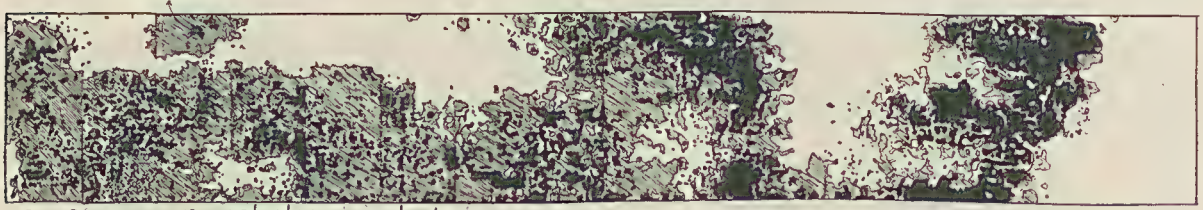
Fig. 3.—Wire mesh used in charting.



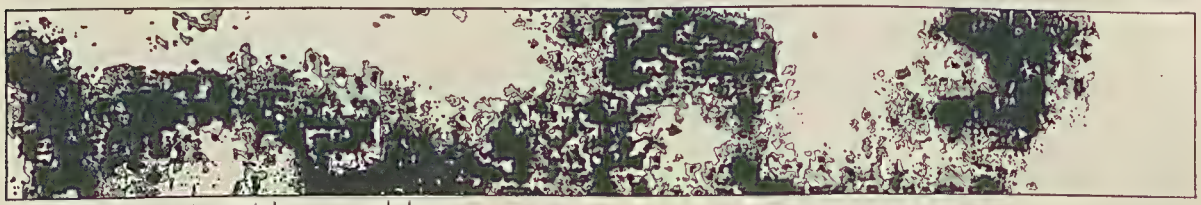
A. Survey made 6/4/33 to 8/4/33.



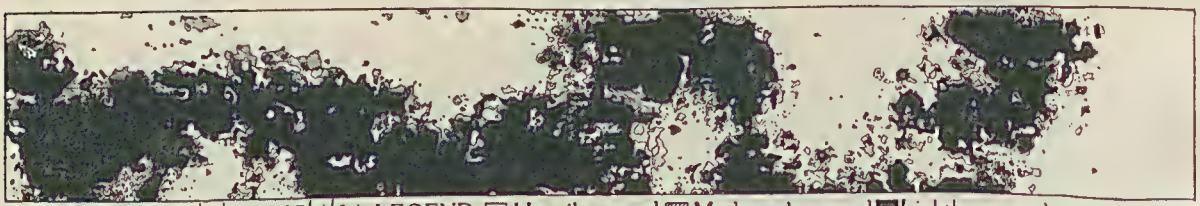
B. Survey made 18/7/33 to 19/7/33.



C. Survey made 12/10/33 to 18/10/33.



D. Survey made 22/1/34 to 30/1/34.



E. Survey made 24/4/34 to 27/4/34. LEGEND ☐ Heavily grazed ▨ Moderately grazed ■ Lightly grazed or neglected

Fig. 4.—Grazing charts taken from the one-acre section of the "horse paddock" over a period of 12 months.

bundle. The initial position of the mesh for each section was with one side stretched in a straight line between the pegs set one chain apart, and as each 5-link strip was charted, the mesh was moved to the adjacent strip.

The herbage was divided into three classes :— (1) Heavily grazed ; (2) moderately grazed ; (3) lightly grazed, or neglected.

Since the growth-habit of the different pasture species present was very variable, the judging was done partly on height and partly on the extent to which "topping" of the herbage was noticeable. Quarter-inch graph paper was used in charting, each square representing a square in the mesh, and permanent charts were afterwards drawn to the scale of 1 inch = ½ chain,

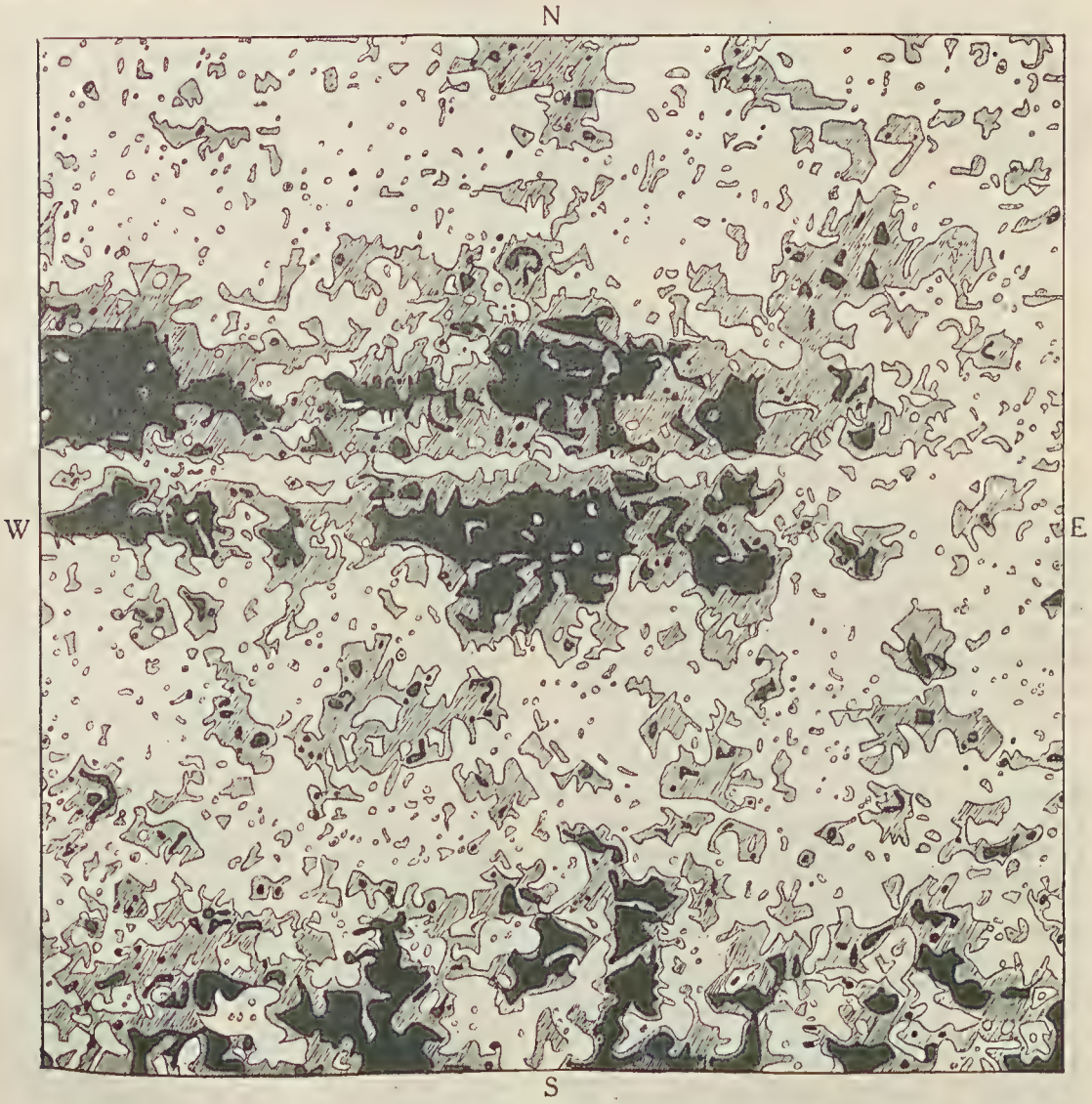


Figure 5.—Survey of a square chain of irrigated pasture grazed by cattle. Survey was made during April, 1934. Compare this with the survey from the horse paddock made at the same time. (Note the difference in scale.)

the areas represented by the three classes of herbage being indicated by appropriate shading. In this manner the acre was charted every three months, beginning in April, 1933.

During the year fourteen Clydesdale mares and sixteen young stock received half their grazing in the 10-acre paddock in which the charted acre was located. Approximately 50 head of dairy cattle were on the paddock for a few days in July, 1933, while six cows and six calves received a third of their grazing from this field in July to September, 1933. With the horses the practice was to have them on the paddock on alternate fortnights.

The percentages of the area which had been heavily, moderately, or lightly grazed at the time of each survey are shown in Table I., while diagrammatic representations of the investigation are given in Figs. 4 and 5.

From the table it can be seen that the proportion of heavily grazed pasture did not vary to the same extent as the other classes, the range being from about one-third to less than one-half, while it was from about one-fifth to one-half in

TABLE I.—PERCENTAGES OF HEAVILY, MODERATELY OR LIGHTLY GRAZED HERBAGE AT EACH SURVEY.

No.	Date of Survey.	Percentage of Area Judged as—		
		(*a*) Heavily Grazed.	(*b*) Moderately Grazed.	(*c*) Lightly Grazed or Neglected.
1	6–8.4.33 ..	34·7	8·2	57·1
2	18–19.7.33 ..	40·1	7·4	52·5
3	12–18.10.33..	39·5	37·0	23·5
4	22–30.1.34 ..	46·7	20·2	33·1
5	24–27.4.34 ..	44·3	12·2	43·5

the case of the moderately grazed section, and from about one-tenth to one-third in the lightly grazed or neglected portion. The fact that at particular times, under the grazing method employed, over 50 per cent. of the area could be neglected almost entirely by the horses is the important feature. The necessity for the avoidance of such waste should be fully realized, particularly in the case of irrigated pastures.

As to whether the patches of heavily grazed or neglected herbage are permanent in their location, the charts reveal that although minor changes do occur (chiefly on the margins between these two classes) the general outline of the patches remains unchanged while a particular grazing method is adhered to. This evidence should effectively dispose of any preconceived idea that, under this type of grazing the heavily grazed patches may become the neglected areas, or conversely, that the neglected patches might become appreciated and eaten down, within a short period of time. Further, does rank growth in some patches represent feed saved for lean periods? It is significant that, according to the charts, the rank patches were seriously attacked only during the spring, when feed was abundant, and the field notes indicate that this was due to the large amount of *fresh* growth, particularly of prairie grass and rye grass, which then occurred in these neglected patches.

The chart for October, 1933, shows a marked improvement in the amount of moderately-grazed herbage, but to a large extent this must be attributed to the unprecedented persistent grazing with cattle during the period July to September, 1933. The small amount of fouling of the patches heavily grazed by the horses was very noticeable, and the fact that dung was concentrated in the neglected patches must contribute very largely to their permanency. This feature has been commented upon by Professor Stapledon and Dr. Hanley in their book, "Grass Land—Its Management and Improvement."

During the summer, this dung-concentration under irrigation conditions produces a very unpleasant condition of the bottom growth in the rank patches, and the offensive smell is probably a major reason for the continued neglect of them by the horses. In Sweden the term "rator" is applied to the neglected patches, and according to tests carried out by Giobel and Nilsson (Herbage Abstracts 4, No. 2, June, 1934, p. 142) the herbage from them was eaten readily when cut and fed to stock.

Although quantitative results published by other workers have not been seen by the authors it is interesting to note that other observers give estimates of the order shown in Table I. Thus William Davies, in his report on the dairy pastures of Australia (Pamphlet 39, Council for Scientific and Industrial Research, 1933), commenting on management of grasslands, states: "Closer observation will show that the stock are almost entirely grazing on patches which are kept short and which may, in the aggregate, not be more than a quarter or a third of the whole area".

Notes taken regarding the general appearance of the herbage and the botanical composition showed that the quality of the herbage offering in the various zones was very different. The neglected patches were strongly grass-dominant, while the heavily-grazed areas, although retaining a fair proportion of grasses, were clover-dominant, white clover being the principal species. It is well-known that with the possible exception of the leaf-tips, the rank herbage is of lower nutritive value than the "short bite." According to work done at Aberystwyth, the prevalence of "burn" in the neglected herbage accentuates this condition, since it further reduces the protein and mineral content of the fodder. In regard to the heavily grazed short patches, Jones has recently emphasized the fact that over-grazing restricts root-development and the growth of succulent leaf-bases in young and old swards, and on this account the patchiness of grazing demonstrated by these charts is to be deplored.

A closer examination of Fig. 4 will show that small patches of moderately-grazed or neglected herbage appear, disappear, and then re-appear in the same location. The field notes show that these patches are seasonal, being composed chiefly of the annual species, barley grass and subterranean clover. The incidence of high banks insufficiently irrigated has been responsible for

the death or restriction of the perennial species primarily established. In summer these patches disappear. Some small short patches were due to the excessive watering of depressions. Strawberry clover was practically the only species which could persist under these conditions, and the horses showed their appreciation of this obviously palatable clover by keeping it eaten down very closely.

It should be remembered that the observations recorded here have been carried out for one year only. Whether the aspect of the pasture will undergo a complete change over a period of years will be decided by charting the area described at intervals of one year.

A similar examination of the influence of grazing with dairy cattle will form the subject of a later article.

Weevils in Stored Grain

AS a result of the low prices offered for grain during the early months of this year, considerable quantities of wheat and oats have been stored on farms, either in bags, or loose in tanks or bins. Reports have been received by the Department of Agriculture, Victoria, that in many instances weevils have attacked the grain. Further uncontrolled attacks by them may cause serious losses.

All farmers have some grain stored on their farms, and they are advised to examine it carefully at once, and determine if weevils are present. The adult insects are small, not greater than three-sixteenths of an inch long, and are shiny black or dark-brown in appearance. The head is prolonged into a long slender snout, which makes identification a simple matter.

The weevils, if present, should be destroyed by fumigation, and carbon bisulphide (as used for rabbits) is the standard fumigant. The fumigation is carried out most efficiently in an iron tank or bin, but a temporary bin may be made in a corner of a barn, or the store-house containing the grain may be fumigated as a whole.

In a thoroughly air-tight container, 4 lb. of carbon bisulphide per 1,000 cubic feet of space (regardless of the amount of space occupied by the grain) will kill all insects. In farm practice, however, it is safer to use double that quantity, and to fumigate for 30 hours approximately.

Carbon bisulphide will not injure the germination of the grain, and, provided reasonable circulation of fresh air is provided immediately after fumigation, the grain will not be tainted in any way. For successful fumigation, the carbon bisulphide liquid should be placed out in shallow containers at the *top* of the grain or room to be treated, and the gas, being heavier than air, will soak down through the grain. Carbon bisulphide is quite safe to use, provided reasonable care is taken; but, as it is highly inflammable, fire of any sort, including lighted lanterns or smoking, should be strictly prohibited when fumigation is being carried out.

Carbon bisulphide is obtainable f.o.r. Melbourne in 5-gallon drums containing 64 lb. of liquid, at 42s. 6d. per drum, or from general storekeepers.

Stored grain should be inpsected regularly for weevils, and the treatment repeated if necessary. If seed wheat is pickled with copper powders before storing, the risk of damage from weevil is reduced considerably.

W. B. MILLER,
Inspector of Agriculture.

Tobacco Growing

Preparations for the Coming Season

By G. E. Coghlan, Tobacco Expert.

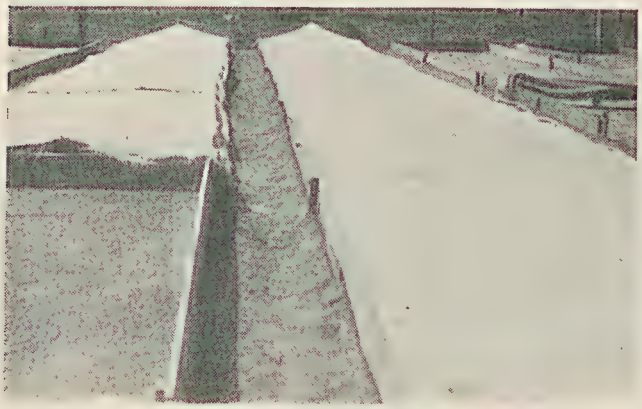
Tobacco seedlings ready for transplanting.

TOBACCO growers have had to contend with many serious set-backs during the past two seasons, but there is every indication that they have not been completely disheartened and that they intend continuing the cultivation of the crop. Newcomers to the industry, and those who are continuing the production of tobacco leaf, are hoping for a good season. The growing of a satisfactory crop depends largely on seasonal conditions, but at the same time unless the grower does everything within his power to ensure such a crop, he cannot expect the ultimate result to be a favorable one. In the production of good quality tobacco leaf a consideration should be given, therefore, to the following phases—(1) varieties, (2) seed-beds and care of seedlings, (3) preparation of the land, (4) manurial requirements.

Varieties.

It has been in the past few years only that growers have gained a full appreciation of the important part played by varieties in the production of a good crop of high quality leaf. Unfortunately the present stocks of seed being used by growers are far from satisfactory, this being due to the fact that practically the whole of these supplies are not true to type. This condition has been brought about by allowing the selected seed-heads to remain exposed to cross-pollination in the field. Seedlings raised from such seed exhibit numerous characteristics of growth in the field, during ripening, and when placed in the curing barn require differential treatment. It should be obvious that such a crop is not going to give the best results and will increase the curing difficulties of every grower. In an attempt to provide a supply of popular varieties, known to be true to type and free from disease, this Department has instituted numerous inquiries, with the result that a supply of Hickory Pryor seed was obtained. This is the only seed which carries the required guarantees, and which can be distributed free of any quarantine regulations. This seed may be purchased from the Director, Department of Agriculture, Melbourne, C.2, at a cost of 2s. per ounce. When purchasing seedlings growers should endeavour to ascertain the conditions under which the seed, from which the seedlings have been raised,

A uniform strike—the result of careful work.



Tobacco seed-bed covered with hessian.

was produced, and if not satisfied with the information supplied should try to secure their supplies elsewhere.

Taking Victoria as a whole there are four varieties only which are widely used, viz., Hickory Pryor, Conqueror, Dungowan, and Spotted Gum. Of these Hickory Pryor, Conqueror, and in the Pomonal district Spotted Gum, are the most satisfactory varieties for the production of good quality leaf combined with a remunerative yield per acre. Dungowan, although grown extensively, does not give the same quantity of high grade leaf as those mentioned previously, but retains its popularity through its ability to withstand adverse conditions to a greater degree.

Growers who intend to raise their own supplies of seedlings should attempt to provide a sufficient number of either Hickory Pryor, Conqueror, or Spotted Gum seedlings to plant up the whole of their intended area, and sow some Dungowan seed also as a stand-by in case of disease destroying all other supplies or the advent of unfavorable conditions. In the case of growers who intend purchasing their supplies of seedlings, every effort should be made to secure supplies of the first three varieties and use Dungowan only if they cannot secure supplies of the other varieties.

Seed-beds and Care of the Seedlings.

As the establishment of a good crop depends on the production of a plentiful supply of healthy seedlings too much attention cannot be given to the raising of robust plants, and in this seed-bed hygiene plays a very important part. It is not merely necessary to provide a suitable site, such as a well-drained friable piece of ground which is not too exposed yet benefits from the maximum sunshine, but the grower must make every effort to sustain the seedlings in a healthy and growing condition.

To obtain satisfactory growth it usually is found necessary to add some fertilizing material to the seed-beds. An application of superphosphate at the rate of 150 lb. per acre will be found advantageous to the young plants, and where a very sandy soil is being used an additional application of a nitrogenous fertilizer should be applied. If such a material as well rotted stable manure or sheep manure is available, a liberal dressing should be worked in to the soil prior to sowing, or in the event of the beds having already been sown a dressing can be applied to the surface of the bed. Should neither of these materials be available an artificial fertilizer such as blood manure should be applied at the rate of 100 lb. per acre. The use of cow or fowl manure is not recommended at any time, as they tend to force the seedlings and make them more liable to attacks by disease.

It is usual to provide the seed-beds with some protection from sand-drift and to prevent too rapid evaporation of soil moisture. Coarse sand or hessian are suitable materials for this purpose.

In the application of water to the seed-beds no arbitrary recommendation can be made, as the quantity and time of application depends entirely on soil and climatic conditions. It must be realized, however, that any drying out of the soil surface just prior to or soon after germination, will mean either a complete failure of the seed to

Seed-beds covered with sand.

germinate or a high mortality among the young seedlings. It is essential therefore that sufficient water be supplied to keep the surface moist until such time as the seedlings are firmly established. Subsequent waterings are then regulated by the climatic conditions and rate of growth of the seedlings, and it is necessary to supply sufficient moisture only, to keep them growing. At no time should the seed-beds be flooded or water allowed to lie in the pathways, such practice

being conducive to outbreaks of disease. Watering should be carried out by means of a fine spray or rose.

Many opinions are held as to what period of the day should be utilized for watering, and it is suggested that probably the most satisfactory time would be relatively early in the day. This procedure allows the maximum sunlight and warmth available to dry out any excessive moisture adhering to the plants or lying on the surface of the seed-bed. This is a step towards preventing conditions arising in the seed-beds under which downy mildew or blue mould may make its appearance. Under very windy conditions and where there is likely to be sand drift it is sometimes found necessary to water twice on the same day, and if such conditions do arise the waterings should be so regulated as to avoid any application during the hottest portion of the day. If watered when the sun is at its hottest there is a grave danger of scalding the foliage of the young seedlings.

Soon after germination when the plants can be definitely identified the beds should be thinned and weeded. The object to aim at in seed-bed population is one plant to the square inch, which will lessen the danger of disease appearing in the seedlings. Over-crowding produces a condition under which downy mildew or blue mould is most likely to appear, and also tends towards the production of a shanky delicate seedling. While in the seed-bed seedlings are exposed to many diseases and insect pests, and growers should endeavour to reduce the occurrence of these to a minimum.

Irrigating tobacco by the spray system.

Although no definite control has yet been found for downy mildew or blue mould, the greatest seed-bed trouble encountered by the grower, it is recommended that from very early in the life of the young plants some spray be used in an endeavour to prevent the outbreak of this disease. A suitable spray is a 4.4.40 Bordeaux mixture, which should be applied at regular intervals during the growth of the seedlings, the first spraying to be done early in September and maintained until the seedlings are all pulled from the beds. During the months of October and November it is recommended that an application of the spray be given at least twice a week, or subsequent to each watering. Growers should not imagine, however, that this will make their seed-beds immune from attacks by the fungus, but it is at least a step in the right direction.

Insect pests in the seed-bed can be controlled and possibly eliminated, but it has been noticed repeatedly that growers do not make any provision whatever to prevent the occurrence of grubs and other insects.

The first pest to make its appearance is usually the Pea Mite. These small insects damage the seedlings by sucking the juice from the leaves, thus destroying the foliage and ultimately the plant. When the mites first appear they are very numerous, and should be dealt with immediately by the use of some contact spray or dust, an abdominal poison such as arsenate of lead being of no value in combating the Pea Mite. Nicotine sulphate is used successfully as a spray, the strength being one part to 80 parts of water at intervals of three to four days while the pest is active. "Nictar," another satisfactory

Furrow system of irrigation.

preparation, is applied as a dust at the rate of 6 lb. per acre, but does not require such frequent applications; once every ten days being quite sufficient, provided no excessive watering or rainfall has been given or received on the seed-bed site during that time. In addition to these treatments it is always advisable to destroy all the weed growth in the immediate vicinity of the seed-beds, particularly cape weed, as this is a favorite breeding place for the pest.

The destruction caused by both the stem grub and leaf miner in the field generally has its origin in the seed-bed, and every grower should take adequate control measures to check the ravages of these pests. Both of these insects are somewhat difficult to exterminate, as their characteristic entry into the stem and the leaf respectively does not expose them to any great risk of being destroyed by the presence of any arsenical or similar poison, although a small percentage of them are destroyed in this manner. Some material or preparation which will act as a deterrent to the moth is thought to be the most satisfactory method of control, and in this direction a preparation such as Tuberol could be used. Tuberol is not used as a poison, but it has an odour which repels the moth, thus preventing the deposition of eggs on the plants. Used at a strength of one part of Tuberol to 50 parts of water will not cause any damage to foliage, but will have sufficient strength to check the moth. Sprayings should commence early in the history of the plant and continue throughout its life in the seed-bed. If heavy waterings or heavy rains are experienced by the seedlings, it would then be necessary to spray immediately afterwards, otherwise spraying at ten-day periods should be sufficient.

In dealing with any chewing grubs or insects the most satisfactory method of ridding the beds of these pests is to spray with arsenate of lead at a strength of 1 in 30. Sprayings should be frequent, and at least one application should be given every week from the beginning of September.

Should cut-worms make their appearance, they can be dealt with effectively by poisoned baits. The bait is prepared by mixing 1 lb. of arsenate of lead with 20 to 25 lb. of bran or pollard, and bringing the mixture to a doughy condition by adding sufficient water in which molasses or treacle has been dissolved. The bait is then distributed over the seed-bed, and it is found that applications towards nightfall give better results than if the mixture is broadcast early in the day

Preparing land for planting-out.

Preparation of the Land.

Early cultivation followed by a sufficient number of thorough workings is necessary to have the land in suitable condition to receive the seedlings at transplanting time. Neglect to carry out these operations efficiently will be reflected in the subsequent growth of the plants.

Every grower should aim at ridding his fields of residue from the previous crop as early as possible, thus eliminating many hosts carrying diseases from one season to another. The cleaner the field and the better the tilth the greater the ease and speed with which transplanting is effected.

Manurial Requirements.

A more general appreciation of the use of fertilizers is to be found amongst the growers, yet there are some who do not quite realize their beneficial effect on a tobacco crop. Fertilizers are usually applied to a crop with the object of increasing the return per acre, but when dealing with tobacco the position is slightly different, because in this instance improvement in the quality of the leaf is as important as increased yield. The object of manurial practice is to obtain maximum yield with maximum quality of the product.

The use of superphosphate is recommended in all tobacco-growing districts, the quantity applied varying according to the strength of the land in use. Where river flats or good loams are being used a dressing of between 500 and 600 lb. per acre is recommended, while on lighter soils 400 to 500 lb. should be ample. At Shepparton it has been found that a dressing of 700 lb. of superphosphate per acre gave a definite reduction in yield. This was brought about apparently by a toxic effect of the manure on the plants, which interfered with their rapid and full growth.

On sandy loams and light sandy soils it is advisable to apply some nitrogenous fertilizer in addition to the superphosphate. A dressing of

[*Continued on page 453.*

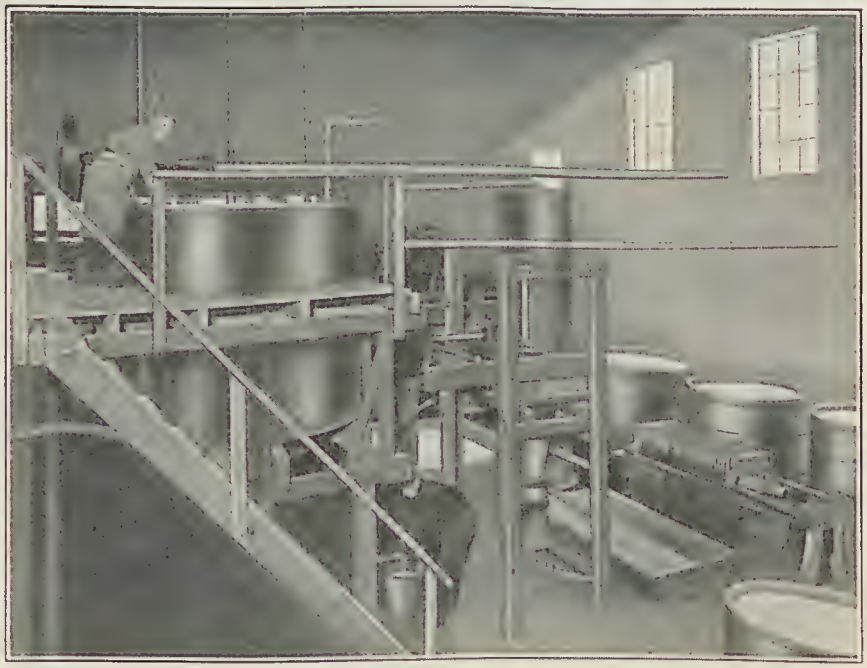
Arsenate of Lead

Analyses of Samples

By W. C. Robertson, Chemist

ARSENATE of Lead, incorrectly termed "arsenic" by the majority of horticulturists, is not, by any means, a perfect insecticide for the control of codling moth. Its world-wide use for the purpose is due solely to the fact that, despite intensive research, agricultural chemists so far have been unsuccessful in producing in economic commercial quantity any compound which is equally effective.

It was claimed that orchards which were sprayed with lead arsenate in the early days of Victorian horticulture were more or less injured. This may have been due, in many cases, to faults in the method of manufacture. However, since then many improvements have been made, and the local brands of lead arsenate now compare very favorably with any of those imported.

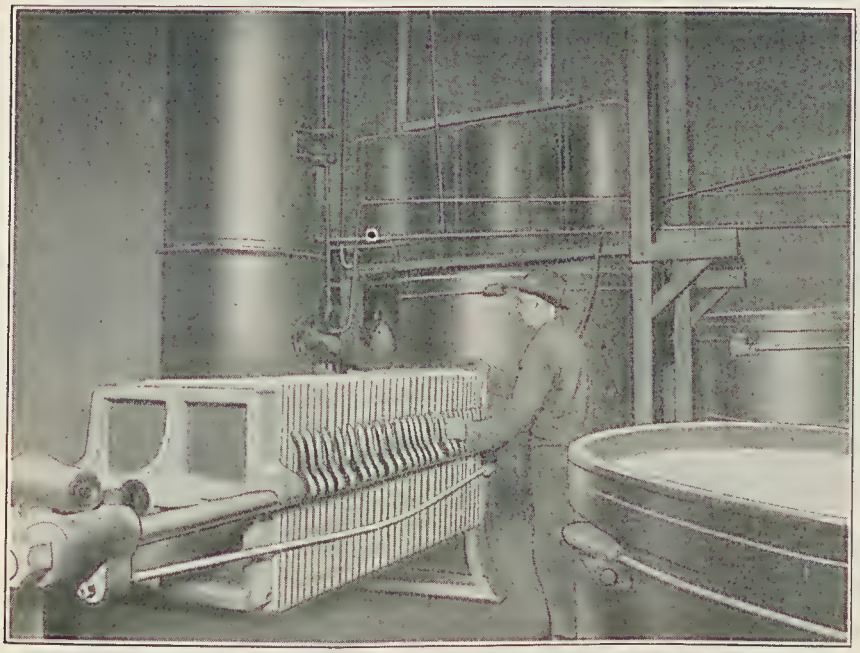


Arsenate of lead works—precipitating vats.

The old-time method of producing lead arsenate by causing lead acetate to react with sodium arsenate has long been superseded by a more up-to-date method which produces a purer and more stable article. The crude admixture of lead acetate and arsenate of soda produces what is termed a basic arsenate in which the arsenic (arsenic oxide) content is about 25 per cent., which is comparatively low, and the lead (lead oxide) content high, approximately 75 per cent., the ratio of arsenic to lead being as 1 : 3, i.e., one part of arsenic to three parts of lead. For the purpose of this article, "arsenic" is to be taken as arsenic pentoxide and "lead" as litharge or lead oxide.

In recent years the method of manufacture in general use on both sides of the world is one termed the "acid" method, which consists of dissolving arsenious oxide in vats with nitric acid and then adding a calculated quantity of lead. The resulting white deposit is either packed in containers and sold in paste form, or, where the dry powder is required, the paste is filter-pressed and artificially dried until practically moisture free. This method, when properly controlled, produces a consistently pure acid lead arsenate having a high arsenic (32 per cent.) low lead (64 per cent.) ratio of approximately one part of arsenic to two parts of lead, and in this respect it differs greatly from the acetate-arsenate method.

Apart from the variation in the percentages of arsenic and lead, there are other pronounced differences between the two lead arsenates particularly in regard to density and toxicity. Acid



Arsenate of lead works—filter-press room.

lead arsenate with a density of approximately 5.8 is much lighter than the heavier basic salt with a specific gravity of about 7.1, while the former compound by virtue of both its physical and chemical composition possesses a much greater toxicity or killing power. As arsenic is assumed to be the killing agent in both forms of arsenate, it is only to be expected that the salt containing the highest percentage of arsenic, all other considerations being equal, will show the greatest toxicity. Similarly, the lighter the arsenate the better the suspension in water which, in turn, means a better spread when spraying with its attendant advantages.

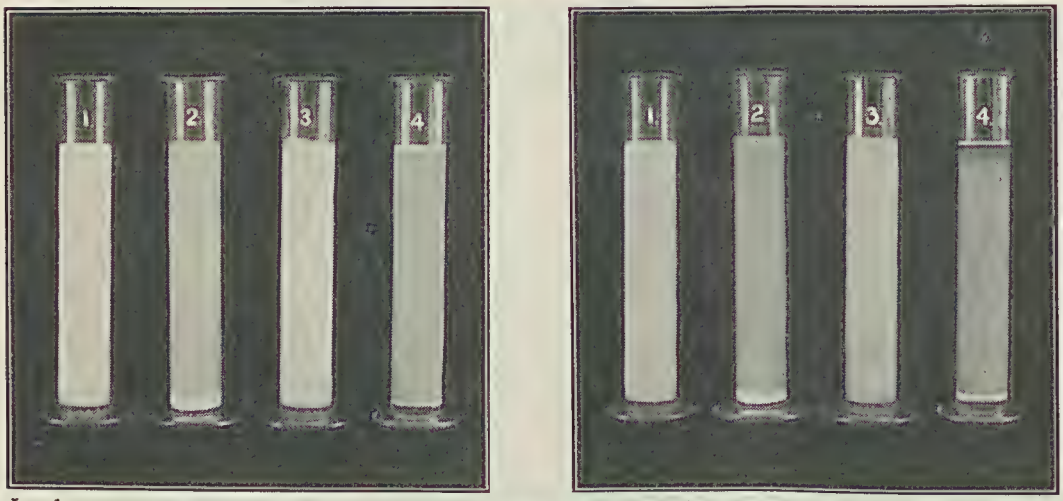
The *Fungicides Act* 1928 requires all brands of lead arsenate on the market in Victoria to conform with the proclaimed standard, i.e.:—"They shall contain not less than 25 per centum of arsenic pentoxide combined with lead, and not more than 1 per centum of water soluble arsenic compounds calculated as arsenic pentoxide both calculated on the dry basis."

This standard was deliberately planned many years ago, with the purpose of including both the basic and acid arsenates of lead. In view of the fact that basic arsenate is definitely inferior to the acid salt, it would appear as though the existing standard needs revision.

TABLE I.—CHEMICAL ANALYSIS OF LEAD ARSENATES.

Brand.	Place of Manufacture.	Sample as Received.				On Dry Basis.		
		Moisture.	Arsenic (As_2O_5).	Lead Oxide (PbO).	Water of Constitution and Undetermined.	Arsenic (As_2O_5).	Lead Oxide (PbO).	As_2O_5 Water Soluble.
		Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
Vallo (Paste)	Victoria	49·12	16·38	36·62	1.88	32.20	64·10	·34
Lion (Paste)	"	45·44	17·34	35·21	2.01	31.77	64·52	·34
" (Powder)	"	·45	31·63	65·20	2.76	31.77	65·48	·23
Arsinette (Powder)	New South Wales	1·03	31·25	60·73	6.99	31.57	61·34	·69
Acro (Paste)	South Australia	48·96	15·27	33·42	2.35	29.92	65·48	·69
" (Powder)	" "	·58	31·24	64·16	4.02	31.42	64·52	·34
*Manganar (Powder)	U.S.A.	1·76	38·91	..	..	39.60	..	1·38
†Ortho (Powder)	"	·38	31·53	63·73	4·36	31.64	63·96	·25
Unity (Powder)	England	·18	32·67	63·44	3·71	32.72	63·54	·34
Summit (Powder)	Germany	·14	30·58	63·05	6·23	30.62	63·14	·23
Jaques (Paste)	Victoria	47·70	16·93	33·31	2·06	32.36	63·68	·34
Bergers (Paste)	"	48·53	16·73	32·92	1·82	32.50	63·96	·34
Blyths (Paste)	"	48·73	16·66	32·51	2·10	32.50	63·40	·57
Hemmingways (Powder)	England	·40	32·32	64·00	3·28	32.44	64·24	·23

* Manganar is manganese arsenate. † This sample is obviously not ortho-arsenate.



Lead arsenate suspensions—Left, 5 minutes after agitation; Right, 30 minutes after agitation. Nos. 1 and 2 represent good and inferior pastes, 3 and 4 good and inferior powders respectively. Note the differences in suspension between 1 and 2 and between 3 and 4 in each case.

The orchardist requires the insecticide to give a maximum kill with a minimum of damage to leaf or fruit, but with the intensity of the summer spray programme in Victoria the inter-actions between different kinds of sprays are such that the slightest departure from normal, on the part of either the operator or the weather, may result in some damage. When this happens, it is unfair to place the blame on the particular brand of arsenate of lead which has been used. For example lime sulphur (calcium sulphide) reacts with lead arsenate to produce, in the main, lead sulphide and calcium arsenate. Under certain conditions, this reaction is slowed down and the ill-effects of the comparatively soluble calcium arsenate are not so pronounced, particularly when the spray carries lime hydrate in excess. In this connexion spray residue on the trees may be the cause of some perplexing damage.

Another little known cause of burn or blemish is the presence of alkali in the spreader used, usually sodium bi-carbonate (baking soda), which forms soluble sodium arsenate or sodium sulphide according to whether the spray used is lead arsenate or lime sulphur. When they are formed during summer spraying, both of these alkaline compounds have a very deleterious effect on leaves and fruit.

A complete analysis of fourteen samples of lead arsenate is given in Table I. Six of these were manufactured in Victoria and three in other States, while the remaining five were imported from overseas.

A survey of the analytical figures in this table discloses two outstanding and interesting facts, viz., (1) the majority of the samples show a very even composition, with a ratio of approximately one part of arsenic to two parts of lead, thereby proving the arsenate to be acid in character and (2) all the samples of lead arsenate comply with the proclaimed standard. Apart from the sample of Manganar, which consists of manganese arsenate, there are two samples, i.e., Summit and Aero (paste), which show a tendency to depart from the normal, the percentage of arsenic in each instance being somewhat low when compared with the percentage of base. On the other hand, the sample of Arsinette shows a comparatively high arsenic percentage when compared with the percentage of lead. The above remarks in connexion with these samples must not be misconstrued and considered condemnatory.

Owing to the number of inquiries received from growers in reference to Manganar, a sample was obtained for the purpose of analysis and comparison. While this sample contained a high percentage of arsenic, it is worth noting that the percentage of water-soluble arsenic is, when determined comparatively, well above the limit proclaimed by the standard for lead arsenate under the Fungicides Act. It should be remembered that water-soluble mineral compounds are a danger during summer spraying, and the collective action of water-soluble arsenic covering several sprayings may accentuate the trouble.

The increasing use of the spreader or wetting agent with lead arsenate is doubtless due to demand, but the fact remains that the indiscriminate use of these mixtures or compounds

TABLE II.—SUSPENSION TEST, DEGREE OF FINENESS.

Brand.	Percentage of Arsenate remaining in Suspension after Standing.		Grams of Arsenic (As_2O_5) per Gallon, in Suspension five minutes after Agitation.
	Five Minutes.	Thirty Minutes.	
	Per cent.	Per cent.	Grams.
Vallo (Paste)	93·6	80·8	3·42
Lion (Paste)	36·6	27·6	1·32
„ (Powder)	49·7	18·8	1·77
Arsinette (Powder)	79·2	67·0	2·85
Aero (Paste)	40·8	16·8	1·39
„ (Powder)	77·6	59·2	2·78
Manganar (Powder)	44·0	15·2	1·98
Ortho (Powder)	47·2	32·0	1·70
Unity (Powder)	64·8	24·0	2·40
Summit (Powder)	85·6	53·2	2·98
Elephant (Paste)	92·8	81·6	3·42
Bergers (Paste)	74·4	45·2	2·76
Blue Bell (Paste)	86·4	73·6	3·20
Hemmingways (Powder)	62·6	16·8	1·09

These analyses were made by A. J. Guest, Analyst, Department of Agriculture.

by the orchardist, irrespective of their composition, must be regarded with some misgiving; in fact there should be no necessity for their use. The manufacturers of lead arsenate, by producing an article of improved physical condition with a degree of fineness approaching the colloidal, should obviate the use of a spreader.

With the object of getting some idea of the degree of fineness of the samples of arsenate collected, a suspension test was carried out on all the samples. The results appear in Table II. The method used, which is not claimed to be any more than comparative, consisted of weighing out a quantity of paste or its equivalent in powder, carefully working this into a thin paste, transferring the sludge to a cylinder and, after adding the calculated quantity of water, vigorously stirring for 30 seconds, and allowing it to stand for (1) 5 minutes, (2) 30 minutes. After each interval a known quantity of the suspension was transferred to a weighed filter paper and the suspended insecticide estimated by drying the paper to constant weight and re-weighing. The weight of arsenate taken and the volume of water used were calculated to equal a field spraying equivalent to $2\frac{1}{2}$-lb. paste or $1\frac{1}{4}$-lb. powder per 50 gallons.

As will be seen from the figures, the degree of fineness of some of the arsenates on the market could be improved considerably. On the other hand some of the samples are colloidal and show appreciable suspension even after 24 hours. Generally speaking, the powders do not suspend as well as the pastes. This is probably due to the destruction of the colloidal nature of the original paste by the action of heat during drying. Although peculiar, it would appear that the moisture content of the sample bears some distinct relation to the power of suspension, apart altogether from the degree of division of the insecticide. At least one sample is suspected of having a small amount of spreader in its make-up which in this test assisted it to obtain fairly high figures.

A study of the analyses (Table I.) and of the figures of the Suspension Test (Table II.) proves that, while all the lead arsenates on the Victorian market may be good, it is obvious that some are better than others.

Tobacco Growing (*Continued from page* 449).

150 lb. of blood manure or some similar organic manure should be sufficient. The use of nitrate of soda or ammonium sulphate is not recommended in the light of present knowledge. No experimental evidence to support the use of potash or lime has yet been obtained. On very acid soils a modest application of lime, say 5 cwt. per acre, may prove an advantage, but it is well to remember that tobacco naturally thrives under slightly acid conditions.

Chicken Rearing

By W. C. Rugg.

THE maintenance of a successful poultry farm for the production of eggs for market is dependent largely on the correct rearing of the chickens each year. The productive life of laying hens is short, and most poultry farmers find it necessary to replace about 50 per cent of their flocks annually. Therefore, chickens must be reared each year to take the place of hens that become unprofitable through age, ill-health, or any other reason. High mortality in chickens is sometimes due to circumstances over which the person in charge of the brooders has very little control.

To rear successfully a small or large number of chickens, a high degree of intelligent care and observation is required throughout many operations, some even before the chickens are hatched. For maximum results there must be an unbroken chain of good management during all the operations leading up to the birth of the chick.

For the production of the eggs from which the chicks are to be hatched, only strong vigorous birds should be mated up. It is a mistake to include in the breeding pen even one bird that has suffered from any complaint whatever, even if it has apparently recovered.

Birds should be fed and kept under conditions that will ensure them having plenty of exercise, and thus being in good hard condition. Hens that are over fat often lay infertile eggs, and those eggs that are fertile often produce weak chickens.

For best results, eggs for incubation should not be held for more than seven days. Some eggs will hatch if held three and four weeks, but the percentage of chickens that hatch from eggs held over a week is much less than from those placed in the machines from four to seven days old. During the time eggs are being kept for incubation, they should be stored in a cool room free from odours, such as kerosene, onions, &c.

The eggs should be incubated at an even temperature. Some chickens have been known to hatch, even though the temperature of the incubator varied from 90° F. to 110° F.; but uneven temperatures nearly always mean poor hatches, and often deformed and unsatisfactory chickens.

The chickens must receive every care from the time they hatch out till they are transferred to the brooders. Many a promising lot of chickens has been ruined by taking them out of the machine too early. This often results in them getting a chill, and once baby chicks suffer in this way many troubles are likely to occur.

From the time the chicken breaks the shell in hatching until it finally struggles clear, it passes through one of the hardest phases of its life. It emerges from the shell in a state of exhaustion, and its greatest need is rest and warmth.

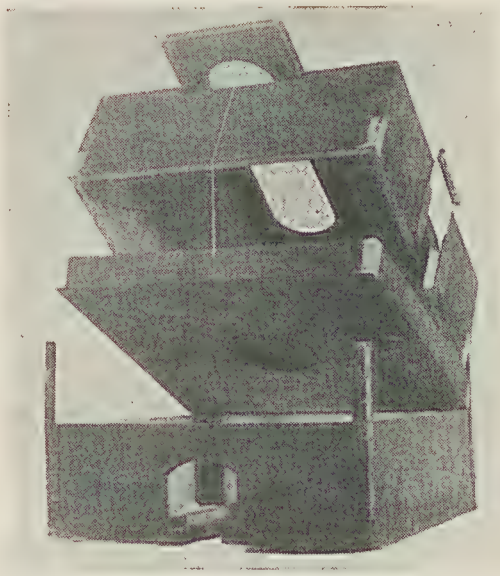
In most incubators it is a mistake to allow the chickens to fall down into the nursery during the hatch, as the difference in temperature on the egg tray where they are hatched and 3 or 4 inches below in the nursery tray is too great. It is better to have them on the egg tray until the hatch is over, which should be by the evening of the 21st day. Chickens not hatched by the morning of the 22nd day at the latest are seldom

worth bothering about. The machine can then be opened and the chicks allowed down into the nursery compartment for about 24 hours, and then transferred to the brooder.

If all these operations are carried out properly, there is then a reasonable chance of rearing the chickens to maturity and getting satisfactory results from them as egg producers. Should any neglect of the above-mentioned operations take place, no after care in feeding or management is likely to make them good chickens. About six months elapses from the time the breeding birds are mated up till the chickens are hatched and the pullets reared and placed in the laying sheds, which means constant care and attention throughout the whole period. If the chickens have been hatched from sound stock, the next thing is to have proper brooding conditions. There are many different brooders in use, and it is impossible to say which is the best; but, whatever type is used, it must be remembered that the two most vital things for the welfare of the chickens are warmth and fresh air.

The chief reason for failure in rearing chickens, probably, is that sufficient ventilation is not provided. It should be recollected that the respiration of fowls is much faster than in man. It is recorded that the breathing rate of a hen is 60 respirations a minute, whereas it is about 17 in the human being. The heart of a hen pulsates at about 120 times a minute, the human heart about 72 to the minute. The hen's body temperature is about 106° F., while that of man is a little over 98° F. In proportion to its weight a hen requires nearly three times as much breathing space as man. Chickens have no sweat glands, and much of the liquid intake is given off through the respiratory organs, thus the air exhaled from the lungs is heavily charged with moisture. This accounts for the high humidity found in badly ventilated brooders, and is often the cause of chickens crowding together and sometimes smothering. These chickens are often referred to as "sweated." Another danger is that if the brooder is not properly ventilated the air, becoming laden with ammoniacal fumes, is unfit for breathing, and has a damaging effect on the health of the birds, quite apart from the fact that the warm moist foul atmosphere helps the multiplication of all harmful microbes.

To obviate this danger it is necessary to ensure good ventilation without draughts and the constant circulation of air to eliminate moisture. For the small poultry keeper there are several brooders sold by poultry requisite dealers, but most of them require a little more ventilation than they already have. The home-made brooders described and illustrated in the book, *Poultry Farming*, published by the Department of Agriculture, are easily made, and have been used successfully by many amateur poultry breeders.



One type of home-made brooder.

For the commercial poultryman the hot-water pipe system running the full length of the brooder house is considered to be almost indispensable. No hard and fast rule can be laid down as to the temperature of the brooder. While a temperature of 85° F. to 90° F. is advisable for the first two or three days, the chickens themselves are the best guide. When, after dark, you find that they are spread out comfortably, the temperature is usually correct; but if they huddle together, it is usually due to cold. Sometimes, if confined too much they become overheated, and will huddle together, evidently in an effort to try to avoid uncomfortable conditions.

The next step is correct feeding. It is quite unnecessary to feed baby chicks for at least 48 hours after hatching. That does not mean that chicks which have been purchased and have travelled a considerable distance should be left another 48 hours without food. The time the chicks were hatched should be ascertained from the supplier, and about 48 hours after that they should get their first food.

Probably there is no operation on a poultry farm about which there are so many differences of opinion as that of the correct way to feed chickens. As success depends to a considerable extent on the feeding, it is of the first importance

that one should have some knowledge of the requirements of the chickens, otherwise foods may be given which contain too much of one thing or too little of another, thus leading to unbalanced growth and low resistance to disease.

When first hatched the chick has within its body the remains of the yolk. This is used to maintain the vital activities of the chick for the first hours of its existence, and it is this provisionof nature which enables us to send day-old chicks considerable distances without supplying them with any food.

Many poultry keepers do not realize that different elements in the food are used by the chickens to build up different parts of the body, and unless the necessary elements are fed in adequate quantities, unbalanced growth will result. The food material should contain carbohydrates and fat to supply energy and heat. Protein is required to form flesh tissue and muscle, while material for bone building is necessary also. The logical base for the ration is grain, but this must be balanced by the addition of other necessary nutrients, such as meat, milk, minerals, and those very important substances known as vitamins, the lack of which may be responsible for low resistance to colds and pneumonia, rickets, and failure to utilize calcium and phosphorous in the food material, resulting in nerve, muscle, and bone disorders, &c. It is known that direct sunlight is an important factor in the forming of vitamins.

Judging by samples of foods examined, there are some chick feeds on the market which would not satisfy a chick's requirements. Some of these mixtures contain seeds which the small chickens find impossible to digest, and if not fatal to them, they are at least injurious. Fortunately, there are a few firms who specialize in poultry foods, and from whom good safe chicken-feed mixtures can be obtained. Many people prefer to mix their own, and the plainer the mixture the better. Milk in some shape or form should be supplied to chicks from the time they are first fed. It is found that skim milk or separated milk is better than whole milk. Where separator milk is not available, dried butter-milk can be purchased, and is probably the best of all for young chicks.

The sooner chickens can be got out on to the ground, and the more often they can be shifted on to fresh ground, the better, and even where space is limited, much can be done by using temporary hurdles, and not allowing the chickens to run over the whole area. Cockerels should be separated from the pullets as soon as they can be identified, and, if possible, the pullets should be given free range until they are sixteen weeks' old, and then transferred to their permanent laying quarters. If kept until they start to lay, they may resent the change and go into a false moult. Success depends, therefore, on (i) sound breeding stock; (ii) correct incubation and brooding; (iii) plain wholesome food; and (iv) plenty of direct sunlight and clean ground.

Chicken brooder house at the State Research Farm, Werribee.

Shearing

Work Before and After

By

N. A. Bowman, Sheep and Wool Expert

IN the preparation of wool for the market many wool-growers are inclined to neglect details which undoubtedly have an important bearing on the ultimate price paid for their clip. Some of these details, although they may appear to be minor in character, have a cumulative effect which is reflected in the price of the fleece.

Fortunately many of these defects in the normal routine of many sheep-men can be overcome by the expenditure of only a little extra energy and concentration, and after all it often is just as easy to do things the correct way as the incorrect way.

It is desirable that shearing should be completed in the shortest time possible, providing, of course, there is no sacrifice of efficiency. If the animals have been drafted previously into workable flocks, they lend themselves to effective handling, and this assists also in the work of classing the clip.

Fig. 1.—Variations in parts of a fleece.
1, top-knot; 2, throat-lash; 3, neck; 4, shoulder; 5, fore leg; 6, wither; 7, back; 8, ribs; 9, flank; 10, hind leg; 11, britch; 12, belly.

Fig. 2.—Various stains in wool, before and after scouring. Left to right—urine, canary, fern, tick, charcoal, dust, and tar brands.

If the work is to proceed smoothly once it has begun, some attention must be given to the shed, surroundings, and equipment, just before shearing commences.

The shed must be cleaned and swept out thoroughly, while the shearing board and wool-room floors should be scrubbed and washed. The counting-out pens must have all gates and fastenings in good order. All gear and equipment should be in satisfactory working order, and if sufficient spare parts such as combs, cutters, long and short guts already cut and ferruled ready to slip in at a moment's notice, &c., are on hand, considerable time will be saved when these parts are required, as they invariably are. The power unit with overhead gear

and hand-pieces should be overhauled. The wool-press and other wool-room appointments, viz., wool-packs, twine, bale fasteners, branding equipment, tally-books, tar brooms, &c., should be in their correct places and ready for handling. If some forethought is given to these matters, shearing can be commenced with the confidence that waste time will be cut to a minimum.

Skirting and Rolling.

Immediately the shearer has removed the belly-wool it should be picked up and the stain removed from it. On no account should the boy on the board be allowed to sweep or kick this wool along the floor. Every effort must be made to keep dust and dirt out of the wool, as the presence of any foreign substance depreciates its value to a marked degree.

As the shearer lets go the fleece it should be picked up by gathering the two hind legs, lifting them up, then drawing them back and doubling them round the rest of the fleece. The fleece should then be thrown on to the skirting and rolling table, neck-end first with the britch-end still nearest the operator. In this way the fleece is spread evenly over the table. It is important that the table be the correct size, the minimum dimensions being 10 ft. 6 in. long, 5 ft. wide, while 11 ft. 6 in. by 5 ft. 6 in. is the most desirable size. Skirting and rolling cannot be done efficiently on an undersized table.

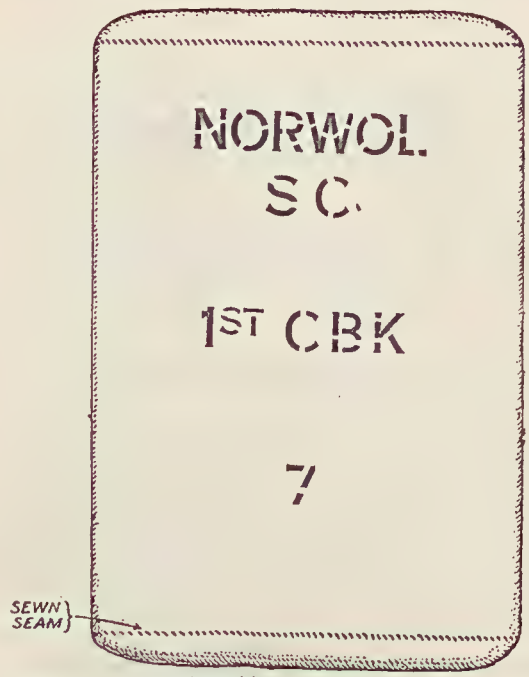


Fig. 3.—Side of Bale showing correct method of branding.

The different parts of a fleece are illustrated in Fig. 1. In skirting, the short, fribby and strong portions are removed from the edge, thus making it as uniform and even as possible. Skirting should be commenced just behind the fore leg

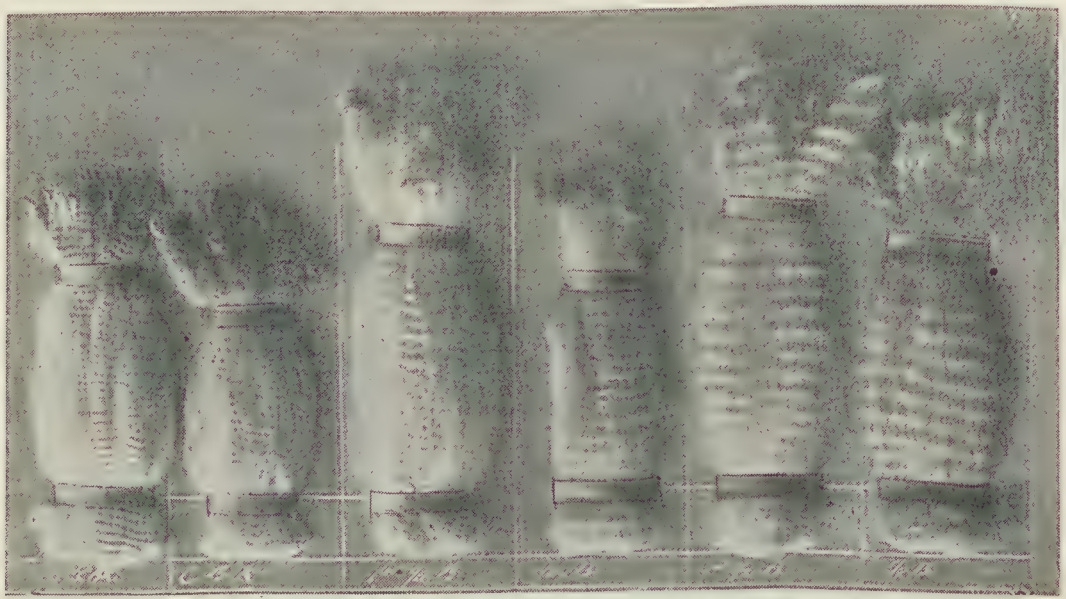


Fig. 4.—Lines made in classing a large cross-bred clip—Left to right, 1st C.B.K., C.B.K., 1st ¼ B., ¼ B., 1st ½ B., ½ B.—continued in Fig. 5.

and continued towards the neck. When both sides of the neck-end have been completed, fold in the neck one-third the length of the fleece. Begin skirting again behind the fore leg and proceed down the sides and flanks and around the britch; the britch-end is now folded in one-third of the fleece length. The fleece is then folded in half lengthways, and again in the same direction; now roll it from the britch-end; in this way the best and most attractive portions are exposed.

The process of skirting and rolling is important for two main reasons—(1) to make the fleece as uniform and even as possible; (2) to present it in an attractive fashion.

All skirtings must be picked into first pieces, second pieces, and stain. The various stains in wool before and after scouring are shown in Fig. 2. Urine stain is a permanent one, which cannot be removed without damage to the fibres.

Classing.

The classing of the wool clip is determined by the following:—(1) the type of wool, i.e., whether merino, comeback, or crossbred; (2) the number of sheep shorn; (3) seasonal and market conditions. In classing merino wool, length, colour, condition, quality, and soundness are the chief factors to take into consideration, while with crossbred wool, quality, colour, and style must be considered. The lines into which a large crossbred clip should be classed are indicated in Figs. 4 and 5.

Where the clip is small and is not classed on the property, it is advisable to have it re-classed in the wool store, and all bags, fadges, &c., bulk-classed. (An article on re-classing and bulk-classing appeared in the August 1933 issue of this *Journal*).

The last and one of the most important steps in the preparation of wool for the market is the baling and pressing of the fleeces and branding of the bales. Badly branded and pressed bales create an unfavorable impression in the minds of buyers, but this can be avoided with a little care. In baling wool the bale should always be put in the press with the sewn seam towards the fixed side. From 35 to 50 fleeces, according to their weight, are placed carefully in the press; these should make a 280-lb. or 290-lb. bale. Light weight bales must be avoided.

Bales should be branded distinctly on the square side as shown in Fig. 3. The name of the property and the number of the bale only, should appear on the top of the bale.

At the completion of shearing a specification list setting out the brand, description, and number of each bale should be forwarded to the wool-brokers acting for the sheep-owner.

Fig. 5.—Lines made in classing a large cross-bred clip—continued from Fig. 4—Left to right, 1st ¾ B., ¾ B., 1st Lincoln, Lincoln, Strong cotted, Fine cotted.

Better Farming Train

Visit to the North East

AFTER a lapse of many months the Better Farming Train, conducted by the Department of Agriculture and the Victorian Railways Commissioners, will shortly commence another tour, when the North-Eastern part of the State will be visited. The train will leave Melbourne on Monday, 17th September, and demonstrations will be given at the following centres:—

Beechworth ..	Tuesday, 18th Sept.
Cudgewa ..	Thursday, 20th ,,
Tallangatta ..	Friday, 21st ,,
Huon ..	Saturday, 22nd ,,
Chiltern ..	Monday, 24th ,,
Wahgunyah ..	Tuesday, 25th ,,
Goorambat ..	Wednesday, 26th ,,
Tungamah ..	Thursday, 27th ,,
Yarrawonga ..	Friday, 28th ,,

This tour, in common with several others, has been made possible by a generous contribution to the cost from the Rural Credits Fund of the Commonwealth Bank.

A feature of the train will be the live-stock carried. Typical dairy cattle of the Dairy Shorthorn, Jersey, Ayrshire, and Friesian breeds will be included, while Large White, Tamworth, and Berkshire pigs and several prize-winning rams of various breeds will be present also for inspection.

The fat-lamb experiment conducted at the Rutherglen Experiment Farm is of particular interest to many farmers, and this is to be illustrated by an exhibit of typical lambs of both Down and long-wool crosses.

In many of the districts to be visited pastures are playing a more important role than hitherto, and lessons in pasture improvement will be depicted in a striking manner. Pasture sods taken from improved pastures in the districts will demonstrate the benefits to be derived from pasture top-dressing, the sowing down of introduced pastures, and the use of improved strains of the various species. The pasture investigation carried out at the Rutherglen Experiment Farm is to be specially featured.

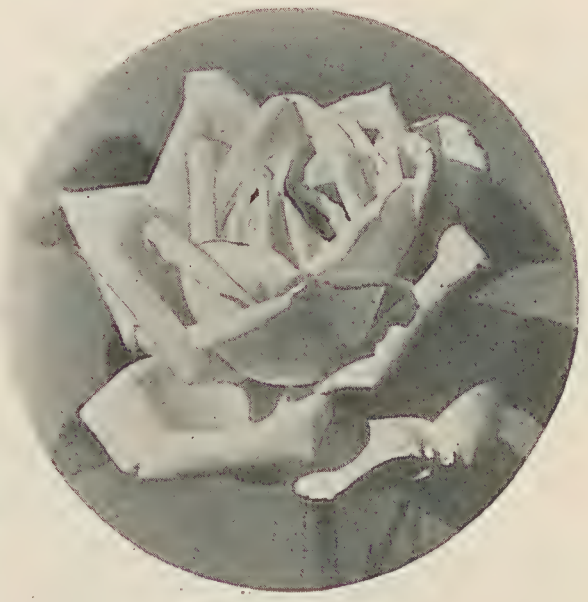
A seeds exhibit will emphasize the importance of all those factors which determine high quality in seeds. Trueness to variety of a seeds sample, the amount and nature of impurities present, germinating capacity, and such other factors as bushel weight, colour, and brightness will be stressed, and exhibits will illustrate methods of determining or estimating the occurrence of these factors. The nature, habit and value of perennial and annual pastures for graziers and dairymen in the North-East of Victoria will be dealt with.

In the wheat-growing section modern wheat farming practices and recommendations with regard to varieties of wheat and oats, fertilizing, cultivation methods, and disease control will be graphically depicted.

New methods of re-working fruit trees by plug grafting and bark grafting will be demonstrated, while recent experiments on the nutrition and manuring of fruit trees are to be represented pictorially. Instructions on the setting out of orchards for interpollination will be made available while the symptoms, life-history, and methods of control of the various orchard pests will be explained.

Orchard and Garden Notes

By Edward E. Pescott, F.L.S.



Frau Karl Druschki.

The Flower Garden.

ATTENTION to lawns is an urgent matter this month. They should be top-dressed only when the necessity for such attention is shown. All top-dressing material should be light and friable; a light sandy peat is the best. If manure is used, it should be quite old, and have been stored for so long that all the attendant weed seeds will have been killed.

A small supply, about 1 or 2 ounces per square yard, of superphosphate or sulphate of ammonia, may be mixed with the top-dressing. In spreading the material, the grass should not be covered over completely at any time; this might cause the death of many roots. The soil should be levelled over with a rake, so as to fill in all depressions, and the tips of the grass left protruding. The lawn should not be rolled after top-dressing.

Rose plants will now be making growth, and the soil should be kept moist; light mulchings of manure may be given in hot localities. Grey down appearances on the young growths are an indication of the presence of mildew fungus. The bushes and the soil should be freely dusted with sulphur. If aphis appears, one or two sprayings with white oil or nicotine-sulphate will be necessary.

The Vegetable Garden.

Free sowings of both French and broad beans should be made; also of green peas. These leguminous vegetables thrive best in a richly-manured soil. The seed should be sown in rows, and before it is covered with soil, a good sprinkling of lime should be given.

Many records of failure of seed in germination are received. In all garden soils, and especially in those on which animal manure is used, many soil insect and other pests are present, and these feed freely on soft and germinating seed. They can be destroyed by a liberal use of lime.

After the seeds have germinated and the plants are growing, they may receive a good lime dusting to keep insect and bird pests in check.

Asparagus beds should be well watered to encourage good growth, and, when the stems grow, they should be freely cut out until December.

Rhubarb beds should be both manured and watered; heavy manuring is necessary.

Tomato plants should also be manured. It is not necessary to stake them; they will be just as productive if allowed to grow naturally on the ground. Tomato plants must not receive a check at any time during the growing period, hence ample and regular waterings are essential.

The Orchard.

The re-working of fruit trees, converting unprofitable varieties into profitable ones, should now be done. If the "plug" or "peg" graft method is adopted, the trees should be first stripped of all laterals and spurs, and only the "bare poles" left. Openings are made at various places in the limbs, about 9 inches to 12 inches apart; a sharp narrow chisel should be used for the purpose. Into these are inserted short scions, the base of which has been cut to a blunt V-end. This graft is driven home with a wooden mallet. After the insertion of the scions, the base is sealed with a grafting wax, preferably the colas-starch one. Colas is heated, and powdered starch, at the rate of a tablespoonful to a pint of colas, is dissolved in it.

The sealing should be done with a brush; and it will be profitable to repeat the brushing in a fortnight. The operation should be cleanly and quickly done.

If re-working is done by the "bark" graft, the work should not be carried out until the bark runs very freely. This will occur in October. In making the bark graft, the scion is cut or sliced on one side only. The bark is opened by a "T," "L," or a "V" cut, and the scion slipped in between the bark and the wood. A small tack will hold the graft in position, and it should be sealed with the grafting wax or colas.

After re-working, all trees should be encouraged to grow freely, either by cultivation, or by an irrigation.

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Fertilizers Act

Prosecution for Offence

AT the Wangaratta Court of Petty Sessions on 7th August, before Mr. R. Stapleton, P.M., John Tweed, of Murphy-street, the local agent for Cresco Fertilizers Ltd., was charged with three violations of the *Fertilizers Act* (No. 3680) 1928, in that upon the sale of a parcel of 15 tons of Cresco guano and superphosphate to Mr. H. N. Walpole, of Whorouly South—(1) he failed to give the purchaser an invoice certificate contrary to section 5 of the Act, (2) he failed to comply with section 7 in failing to securely and conspicuously affix to each parcel of the fertilizer a plainly printed label clearly and truly giving the respective forms in which phosphoric acid occurs in such fertilizer, and (3) he was liable to a penalty under section 44 of the Act in selling Cresco guano and superphosphate in respect of which no brand was registered under the Fertilizers Act.

Mr. E. Gorman, K.C., and Mr. T. S. Clynne, instructed by Messrs. Whyte, Just, and Moore, of Geelong, appeared for the defendant. Mr. W. Nunan, of the Crown Law Department, acted for the Department of Agriculture.

Mr. W. C. Robertson, Chemist of the Departmental Laboratory, who instituted proceedings, deposed that he had had a conversation with defendant on the 15th November, 1933, during which Tweed had admitted selling Cresco guano and superphosphate from stock.

On being handed a label, which was said to be similar to those attached to the bags containing the fertilizer, and on which the words "Total Phosphoric Acid 16.50 per cent." appeared, the witness said that an application for a registered brand for guano and superphosphate (one-third and two-thirds), if tendered with such a low guarantee, viz., 16.50 per cent. phosphoric acid, and at the price charged, i.e., £3 15s. per ton, would have been refused by the Director of Agriculture. The calculated value of the fertilizer, with the label guarantee of 16.50 per cent. phosphoric acid based on current unit values, was approximately 38s. 6d. per ton.

Defendant was found guilty on each of the three charges, and was fined £10 (section 44), £1 (section 5), and £1 (section 7), with £15 5s. costs.

A stay of proceedings for 28 days was granted.

Standard Herd Records

Complete Return of the Cows which completed the Tests during the Quarter ended 30th June, 1934.

In the following is set out the records of all cows which completed a lactation during the quarter. The number is 1182, of which 888 qualified for the certificate. The figure in brackets after the owner's name shows the number of entries.

The amount of butter fat required for qualification varies according to the age of the animal (up to 5 years at time of calving) the standards being as follow:—

Junior 2 year old (under 2½ years at time of calving)	230 lb. butter fat.
Senior 2 year old (between 2½ and 3 years at time of calving)	250 lb. butter fat.
Junior 3 year old (between 3 and 3½ years at time of calving)	270 lb. butter fat.
Senior 3 year old (between 3½ and 4 years at time of calving)	290 lb. butter fat.
Junior 4 year old (between 4 and 4½ years at time of calving)	310 lb. butter fat.
Senior 4 year old (between 4½ and 5 years at time of calving)	330 lb. butter fat.
Mature cow 5 years and over	350 lb. butter fat.

(Except where otherwise stated, the period of Test was 273 days.)

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Allen, F. de V., Toora, Jersey (4).										
Wood Surprise	36776	30.6.33	22	6,486	5·62	364·71	250	Sr. 2	362	Blackwood Valley Skim
Wood Model	36775	9.7.33	20	6,723	5·20	349·77	250	Sr. 2	358	Blackwood Valley Skim
Toorvale Starleigh 2nd	23193	4.8.33	13	8,777	6·27	362·22	350	Mature	303, 405, 427, 485, 437, 485	Welkin of Melrose
Charm of Blackwood Valley	17420	12.8.33	28½	9,386	5·21	488·95	350	Mature	250, 341, 378, 362, 430, 452, 449	Woodruff Admiral
Alston, N. B., Romsey, Jersey (13).										
Rosyth Golden Duchess	28371	10.7.33	11½	5,835	6·08	354·84	350	Mature	326, 206, 383, 386	Lord 2nd of Brucevale
Rosyth Banksia Bonnie	41900	29.7.33	7	4,787	5·60	267·90	250	Sr. 2	289	Aveley Antony
Rosyth Grevillea	Vol. 21	31.7.33	10	4,595	5·43	249·72	230	Jr. 2		Aveley Antony
Rosyth Princess Rose 2nd	32878	8.8.33	14½	6,465	5·27	340·83	310	Jr. 4	295, 352	Lord 2nd of Brucevale
Rosyth Beauty's Queen	36778	9.8.33	12	5,278	5·63	297·00	290	Sr. 3	254, 316	Lord 2nd of Brucevale
Rosyth Rosebud	Vol. 21	10.8.33	10	4,487	5·49	246·16	230	Jr. 2		Aveley Antony
Rosyth Lady Gay	Vol. 21	15.8.33	10½	4,665	5·00	233·44	230	Jr. 2		Aveley Antony
Rosyth Princess Defiance	Vol. 21	24.8.33	8	3,900	4·73	184·51	230	Jr. 2		Aveley Antony
Rosyth Romany Girl	Vol. 21	2.9.33	7	3,419	5·44	186·10	230	Jr. 2		Aveley Antony
Rosyth Golden Queen	Vol. 21	5.9.33	7	3,951	5·59	220·74	230	Jr. 2		Rosyth Jessie Laird
Rosyth Midget	41902	12.9.33	11	5,090	5·74	292·24	250	Sr. 2	279	Lord 2nd of Brucevale
Rosyth Romany Lass	41904	16.9.33	10	4,649	6·66	309·69	250	Sr. 2	307	Aveley Antony
Rosyth Princess Rose	28372	23.9.33	17	7,787	4·99	388·29	350	Mature	363, 408, 367, 483	Rosyth Cream Socks
Atherton, W. H., Swan Hill, Jersey (9).										
Beverly Carnation	25729	3.7.33	21	8,326	5·46	454·37	350	Mature	335, 323, 481	Carnation Bosun of Peri
Beverly Empress 2nd	25731	15.7.33	20	8,632	5·22	450·52	350	Mature	256, 350, 542	Rosella's Lad of King's Vale
Peri Hope's Surprise 4th	C.R.	26.7.33	20	8,646	4·24	366·38	330	Sr. 4		Carnation Laddie's Bosun
Empress of Beverly	18607	15.8.33	14	6,801	5·40	366·94	350	Mature	372, 310, 293, 464, 450, 458, 488	Emperor of Beverly
Beverly Mythic 4th	36818	18.8.33	6½	4,608	5·93	273·15	250	Sr. 2	279	Banyule Remon
Beverly Carnation 2nd	32894	27.8.33	11½	7,434	5·81	431·74	310	Jr. 4		Rosella's Lad of King's Vale
*Tiny 3rd of Beverly	21097	27.8.33	4	7,545	5·13	386·79	350	Mature	282, 434, 262, 467, 453, 501	Rosella's Lad of King's Vale
Wattle Bloom of Beverly	18611	11.9.33	14	7,029	4·54	318·92	350	Mature	329, 343, 350, 329, 390, 388	Rosella's Lad of King's Vale
Beverly Cream Lassie 5th	36816	14.9.33	11½	6,844	5·06	346·19	250	Sr. 2	313	Banyule Remon

* 251 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Atkinson, W. K., Swan Hill, Dairy Shorthorn (23).										
Willow Park Damsel ..	13408	29.6.33	25½	10,125	4·17	422·56	350	Mature	338, 409, 452, 380, 439, 538, 490, 458, 441	Havelock of Darbalara
Willow Park Comet 7th ..	D.S.H.B.A.	20.7.33	22½	10,664	3·54	377·85	290	Sr. 3	284 ..	Willow Park Design
Willow Park Dainty 4th ..	D.S.H.B.A.	4.8.33	22½	9,251	4·16	385·19	290	Sr. 3	333 ..	Willow Park Eminent
Willow Park Camelia ..	13206	5.8.33	31	14,795	3·74	553·40	350	Mature	384, 441, 515, 539, 615, 574	Count of Willow Park
Willow Park Queenie 26th	D.S.H.B.A.	5.8.33	24½	9,555	4·38	418·95	250	Sr. 2	261 ..	Havelock of Darbalara
Willow Park Duchess 15th..	D.S.H.B.A.	10.8.33	18	8,946	3·94	352·25	290	Sr. 3	261 ..	Willow Park Eminent
Willow Park Camelia 4th ..	D.S.H.B.A.	16.8.33	N.O.C.	10,116	3·98	402·95	330	Sr. 4	291, 367 ..	Willow Park Design
Willow Park Blush 6th ..	D.S.H.B.A.	17.8.33	17	5,121	4·23	216·37	230	Jr. 2	.. ..	Willow Park Banker 2nd
Willow Park Blush 5th ..	D.S.H.B.A.	25.8.33	15½	9.044	4·35	393·42	230	Jr. 2	.. ..	Willow Park Banker 2nd
Willow Park Butterfly 2nd..	D.S.H.B.A.	28.8.33	20	8,359	4·29	358·88	290	Sr. 3	355 ..	Havelock of Darbalara
Willow Park Damsel 2nd ..	D.S.H.B.A.	31.8.33	24½	9,725	4·34	422·18	350	Mature	361, 452, 428, 531	Reflector of Willow Park
Willow Park Comet 2nd ..	D.S.H.B.A.	3.9.33	33	12,617	3·63	458·14	350	Mature	239, 311, 363, 348, 339	Count of Willow Park
Willow Park Melba 4th ..	D.S.H.B.A.	3.9.33	11½	9,273	4·25	394·45	350	Mature	333, 285, 362	Sovereign 2nd of Willow Park
Willow Park Melba 6th ..	D.S.H.B.A.	3.9.33	22½	10,248	3·85	394·90	270	Jr. 3	351 ..	Lustre of Willow Park
Willow Park Camelia 7th ..	D.S.H.B.A.	10.9.33	24	11,336	4·17	472·30	290	Sr. 3	426 ..	Willow Park Design
Willow Park Countess 9th ..	D.S.H.B.A.	10.9.33	22	9,738	4·07	396·06	270	Jr. 3	.. ..	Willow Park Imperial 2nd
Willow Park Camelia 6th ..	D.S.H.B.A.	12.9.33	15	7,724	4·06	313·68	290	Sr. 3	358 ..	Willow Park Design
Willow Park Duchess 7th ..	D.S.H.B.A.	16.9.33	25	10,127	3·96	401·49	350	Mature	262, 265, 364, 346, 365, 433	Count of Willow Park
Willow Park Dainty 5th ..	D.S.H.B.A.	19.9.33	27	11,019	4·29	472·82	270	Jr. 3	374 ..	Willow Park Banker 2nd
Willow Park Duchess 20th	D S.H.B.A.	19.9.33	21	7,067	4·04	285·60	230	Jr. 2	.. ..	Willow Park Governor
Willow Park Camelia 2nd ..	D.S.H.B.A.	21.9.33	35	12,162	3·66	445·51	350	Mature	288, 376, 427, 415, 439	Diamond of Willow Park
Willow Park Melba 2nd ..	D.S.H.B.A.	22.9.33	27½	11,904	4·28	509·23	350	Mature	415, 483, 505, 547	Count of Willow Park
Willow Park Moss Rose ..	14221	23.9.33	35	12,385	4·13	511·88	350	Mature	404, 424, 471, 521, 612, 550, 580	Havelock of Darbalara
Austin, F., Lara, Jersey (5).										
Avalon Gladstar's Buttercup 2nd	36823	27.7.33	13½	4,849	5·92	287·18	270	Jr. 3	281 ..	Avalon Gladstar 2nd
Avalon Mercedes 16th's Queen	36827	30.7.33	12½	6,112	7·28	445·03	270	Jr. 3	354 ..	Avalon Mercedes Chief 16th
Avalon Mercedes Pansy 6th	28405	16.8.33	23½	9,645	5·02	483·98	350	Mature	397, 413 ..	Mercedes Chief of Glen Iris
Avalon Noble's Beauty 2nd	28430	1.9.33	20½	9,057	6·36	575·97	350	Mature	370, 513 ..	Noble of Avalon
Avalon Noble's Duchess ..	32908	25.9.33	21	7,650	5·53	422·84	310	Jr. 4	408 ..	Noble of Avalon
Axford, W. H., Camperdown, Jersey (11).										
May Queen of Spring Vale ..	21164	22.7.33	18	8,324	4·86	404·38	350	Mature	477 ..	Merry Duke of St. Albans
Spring Vale Gay Lass ..	28868	27.7.33	17	8,135	5·07	412·05	350	Mature	429 ..	Conqueror of Somerville
Greta of Glenallwyn ..	16604	13.8.33	16	7,460	4·96	369·70	350	Mature	282, 379, 470	Retford Peer
Spring Vale Dora ..	25736	22.8.33	25	8,057	5·18	417·68	350	Mature	316, 450 ..	Conqueror of Somerville
May of Leura	18624	26.8.33	18½	6,510	5·74	373·47	350	Mature	418 ..	Quinton of Melksham Park
Leura Countess 3rd ..	Vol. 21	4.9.33	15	5,552	5·23	290·40	270	Jr. 3	.. ..	Curiosity's King of Comely Banks
Leura Piccaninny 3rd ..	25246	6.9.33	30½	10,194	5·70	581·05	350	Mature	297, 539 ..	Grant of Melrose
Leura Zoe	40697	6.9.33	11½	4,161	5·37	223·50	230	Jr. 2	.. ..	Curiosity's King of Comely Banks
Carranvallac Zoe 5th's Fancy	25233	10.9.33	24½	8,444	5·18	437·66	350	Mature	365, 505 ..	Sir Fancy Madeira of Werribee
Leura Patricia 7th ..	36843	20.9.33	12½	4,715	5·81	273·78	310	Jr. 4	295, 273 ..	Admiral of Leura
Leura Lady Elector 5th ..	28861	25.9.33	21	5,835	5·69	331·78	350	Mature	297 ..	Admiral of Leura
Ballarat Orphanage, Ballarat, Jersey (9).										
Orphanage V.C.'s Quicksand 2nd	36862	15.7.33	7	5,656	5·48	310·21	250	Sr. 2	226 ..	Wompini V.C.
Orphanage Jessie 2nd ..	32928	18.7.33	N.O.C.	5,848	4·50	263·34	250	Sr. 2	286 ..	Orphanage Quicksand Prince
Danalister Zaffarine 2nd ..	25253	22.8.33	11½	6,257	5·66	353·86	350	Mature	354, 320, 427, 469	Starbright's Duke of Glen Iris

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Ballarat Orphanage, Ballarat, Jersey—*continued.*										
Orphanage Attractive 3rd	41397	24.8.33	8	4,558	5·55	253·13	230	Jr. 2	...	Orphanage Quicksand Prince
Orphanage V.C's. Molly	36860	24.8.33	12½	6,773	4·72	319·43	310	Jr. 4	367, 443	Wompini V.C.
Orphanage Pearl 5th	41409	27.8.33	13	4,134	6·08	251·91	230	Jr. 2	..	Orphanage Quicksand Prince
Orphanage Garenne 3rd	41402	29.8.33	11½	3,802	6·17	234·59	230	Jr. 2	..	Tavistock Mystery's Chief
Orphanage V.C's. Molly 2nd	41413	1.9.33	15	6,224	5·21	324·10	230	Jr. 2	..	Wompini V.C.
Orphanage Attraction 3rd	41396	9.9.33	12½	4,993	5·49	274·34	230	Jr. 2	..	Orphanage Quicksand Prince
Barber, H. P., Somerville, Jersey (1).										
Westernport Valda	C.R.	1.9.33	9	5,433	5·27	286·08	230	Jr. 2	..	Somerville Master's Babs
Bassett-Smith, C., Kyabram, Red Poll (6).										
Victoria Warplane	1759B	16.8.33	18	8,637	4·33	373·60	350	Mature	288, 274, 359, 424, 406	Belligerent
Victoria Plume	2331A	20.8.33	22	7,934	4·52	359·95	350	Mature	295, 357	Victoria Bit O'Bacca
Temperly Rosita	1648A	21.8.33	10	6,926	4·59	317·77	350	Mature	190, 293, 364, 395	Corriedale Royal Favourite
Temperly Pepita	1795C	26.8.33	17	5,451	4·39	239·43	230	Jr. 2	..	Earl of Beaconsfield
Victoria War Dove	1759B	28.8.33	8	7,746	4·67	361·86	350	Mature	282, 248, 352, 449, 458	Belligerent
*Flowing Vale Vision	1795C	17.9.33	4	5,745	4·58	263·01	350	Mature	286, 302, 312, 325	Flowing Vale Dinkum Victor
Batten, H. J., Panmure, Jersey (7).										
Mount Warrnambool Daisy 6th	41168	13.7.33	10	6,314	5·93	374·21	230	Jr. 2	..	Willis Vale Mystic Count
†Mount Warrnambool Lass	41170	1.8.33	4	5,900	5·85	344·92	230	Jr. 2	..	Kings Vale Rosella 11th's Lad
*Almadale Oxford Niobe (Imp. N.Z.)	36875	22.8.33	4	4,440	7·02	311·61	250	Sr. 2	340	Willonyx Oxford Lad
Mount Warrnambool Elaine 3rd	32952	22.8.33	10½	5,453	5·86	319·37	350	Mature	330	Cudgee Farm King
Elaine 8th of Melsham Park	14281	18.9.33	9	5,291	5·67	300·01	350	Mature	374	Waverly Lass 3rd's Viscount of Melrose
Mount Warrnambool Floss 2nd	36877	20.9.33	11	5,598	5·69	318·27	250	Sr. 2	332	Cudgee Farm King
Mount Warrnambool Daisy 5th	32950	23.9.33	9½	6,009	5·21	312·96	310	Jr. 4	355	Willis Vale Mystic Count
Bazeley Bros., Stanhope, Jersey (2).										
*Brighton Lady 23rd	30517	6.8.33	4	9,285	4·65	431·58	310	Jr. 4	481	Brighton King 40th
Selsey Sally	41948	8.8.33	11	4,386	5·57	244·10	230	Jr. 2	..	Jubilee Wheatenlight
Belfield, Estate of the late, Coleraine, Jersey (1).										
Nairane Cloth of Gold 3rd	29227	22.8.33	18	7,823	5·12	400·26	290	Sr. 3	358	Strathbow Goldstar
Bidgood, F., Wodonga, Jersey (11).										
Staghorn Masters Fairy	28451	8.8.33	23½	8,702	5·81	505·33	330	Sr. 4	339, 502	Staghorn Northlarks Masterpiece
Wonderful Draconis (Imp.)	38612	9.8.33	23	7,619	6·11	465·48	310	Jr. 4	..	Wonderful Standard
Staghorn Masters Fairy 2nd	42007	11.8.33	6½	5,513	5·35	295·07	250	Sr. 2	304	Werribee Northern Masterpiece
Staghorn Fox's Clementine 5th	28448	19.8.33	20	6,899	4·99	344·45	350	Mature	315, 399	Madeira's King of Staghorn
Staghorn Masters Lotus 4th	42008	19.8.33	19	7,165	6·46	462·89	250	Sr. 2	352	Werribee Northern Masterpiece
Staghorn Fox's Clementine 4th	18633	23.8.33	18½	7,035	5·47	384·97	350	Mature	337, 385, 433, 508, 495, 467	Madeira's King of Staghorn
Staghorn Sweet Clementine 3rd	Vol. 21	23.8.33	8	4,053	6·08	246·24	230	Jr. 2	..	Werribee Northern Masterpiece
Staghorn Masters Fancy	22982	28.8.33	23½	7,631	5·48	417·85	350	Mature	347, 382, 463, 504	Werribee Northern Masterpiece
Staghorn Masters Larkspur	28455	3.9.33	25	9,843	5·58	549·45	350	Mature	459, 463, 566	Werribee Northern Masterpiece
Staghorn Clementines Gladness	Vol. 21	12.9.33	14	7,002	5·50	385·36	230	Jr. 2	..	Werribee Northern Masterpiece
Staghorn Masters Queen	28459	23.9.33	24	8,429	6·04	509·52	350	Mature	424	Werribee Northern Masterpiece
Black, Mrs. A. J., Noorat, Jersey (2).										
Noorat Gay Girl	32988	7.7.33	15½	6,501	5·63	366·19	310	Jr. 4	256, 328	Cellist of Warenda
Noorat Sunbeam	32994	8.7.33	15	8,486	5·37	455·42	310	Jr. 4	331, 473	Cellist of Warenda
Black, I. S., Noorat, Ayrshire (4).										
Mount Noorat Posy 2nd	23592	28.6.33	15	8,031	4·06	326·33	230	Jr. 2	..	Scottish Hero of Gowrie Park
Mount Noorat Georgette	23137	8.7.33	23	10,392	3·61	374·70	310	Jr. 4	267, 413	Sparrovale Ranger
Mount Noorat Scottish Lassie 2nd	26595	12.8.33	16	7,073	4·00	283·10	230	Jr. 2	..	Scottish Hero of Gowrie Park
Mount Noorat Marigold	18648	31.8.33	22	9,315	3·83	357·18	350	Mature	289, 361, 345	Scottish Fame of Gowrie Park

* 240 days in test. † 250 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Bott, J. and N., Yarrawonga, Red Poll (13).										
Naranghi Daybreak ..	2935A	21.7.33	9	8,138	4·53	369·05	250	Sr. 2	331 ..	Blackwood Salvologer
Naranghi Fantasy ..	2731AA	22.7.33	22½	5,903	4·00	236·00	230	Jr. 2	.. ..	Woodburn Winalot
Naranghi Merle	2510C	25.7.33	26	9,963	4·78	476·26	350	Mature	451 ..	Flowing Vale Cherrystone
Wyana Wah Peggy ..	2362A	31.7.33	13½	8,044	4·00	321·58	350	Mature	342 ..	Flowing Vale Cherrystone
Naranghi Japonica ..	Vol. 7	13.8.33	15½	5,306	4·26	225·88	230	Jr. 2	.. ..	Naranghi Wisdom
Flowing Vale Joykum ..	1713B	22.8.33	N.O.C.	8,879	3·76	333·63	350	Mature	457 ..	Dinkum Astrologer
Woodburn Flo	2774AA	24.8.33	25½	9,365	3·70	346·38	270	Jr. 3	275 ..	Whiteway Wiseman (Imp.)
Flowing Vale Plum Again..	1718B	31.8.33	17½	8,456	3·98	336·90	350	Mature	334 ..	Flowing Vale Dinkum Victor
Naranghi Vesper	2939A	2.9.33	20	6,468	4·62	298·95	230	Jr. 2	.. ..	Naranghi Wisdom
Naranghi Pip	2539D	9.9.33	11½	9,068	3·95	358·04	350	Mature	368 ..	Woodburn Elgin
Flowing Vale Lady Victoria	1786C	15.9.33	..	8,489	4·35	369·07	350	Mature	345 ..	Bellum Victor
Naranghi Likely	Vol. 7	18.9.33	..	6,618	4·38	289·68	230	Jr. 2	.. ..	Naranghi Wisdom
Flowing Vale Sunbeam 5th	3117B	24.9.33	..	9,311	4·41	410·53	350	Mature	425 ..	Bellum Victor
Box, Dr. J., Estate of late, Noogee, Jersey (5).										
Toorongo Nancy	36942	4.8.33	4	1,245	4·40	54·75	250	Sr. 2	221 ..	Toorongo Mercedes King
*Toorongo Muriel ..	28480	23.8.33	4	4,830	4·74	223·72	310	Jr. 4	179,200, 267	Werribee Fancy Masterpiece
†Toorongo Princess Eleanore	28481	3.9.33	5½	4,413	6·11	239·64	330	Sr. 4	237, 104 ..	Sunset of Melrose
‡Toorongo Gaiety Girl ..	28479	8.9.33	4	3,555	4·81	171·06	350	Mature	253, 284 ..	King William of Rockdale
Mayland Heath	22998	12.9.33	4	5,472	4·34	237·53	350	Mature	332, 245, 285	Cosmos Noble of Mayland
Box, Dr. J., Estate of late, Whittlesea, Jersey (3).										
Toorongo Pet	42263	15.8.33	14½	4,735	5·92	283·51	230	Jr. 2	.. ..	Kantara Don Juan
Edmonton Chevy ..	33210	1.9.33	20	8,057	6·22	501·10	330	Sr. 4	328, 464 ..	Biz Chief of Glen Iris
Toorongo Queen Bess ..	33010	12.9.33	..	6,443	6·32	406·89	270	Jr. 3	355 ..	Ruhbank Larkspur's Admiral
Boyes, Chas., Levena West, Jersey (12).										
Kintore Snowdrop ..	36592	19.7.33	24	7,845	4·77	374·09	250	Sr. 2	350 ..	Kintore Clementine's King
Kintore Pansy's Queen ..	21148	21.7.33	25½	8,204	5·75	471·61	350	Mature	430 ..	Werribee Northern Masterpiece
Kintore Masters Queen ..	40552	23.7.33	21	6,351	5·12	324·92	230	Jr. 2	.. ..	Staghorn Masterlock
Kintore Pansy's Pride ..	22999	25.7.33	30	8,688	5·27	457·58	350	Mature	393 ..	Larkspur's King of Staghorn
Kintore Pansy's Queen 2nd	33019	26.7.33	28½	10,272	4·74	487·04	290	Sr. 3	482 ..	Kintore Clementine's King
Kintore Masters Princess ..	40551	27.7.33	18	5,129	6·00	307·77	230	Jr. 2	.. ..	Staghorn Northlarks Masterpiece
Kintore Masters Cream ..	40549	28.7.33	25½	6,990	5·50	384·45	230	Jr. 2	.. ..	Staghorn Northlarks Masterpiece
Kintore Madeira	33015	30.7.33	22	7,305	5·85	427·37	330	Sr. 4	365 ..	Kintore Clementine's King
Kintore Masters Snowdrop	40553	8.8.33	21	7,112	5·39	383·48	230	Jr. 2	.. ..	Staghorn Northlarks Masterpiece
Kintore Clementine's Princess 2nd	33013	20.8.33	18½	6,867	4·84	332·61	310	Jr. 4	319 ..	Kintore Clementine's King
Kintore Fox's Clementine 2nd	33014	28.8.33	16	7,964	4·21	335·57	310	Jr. 4	277 ..	Kintore Clementine's King
Kintore Queen	36951	9.9.33	15	7,659	4·93	377·45	250	Sr. 2	403 ..	Kintore Clementine's King
Broad, A. A., Sutton Grange, Jersey (12).										
Grangelea Bunty 5th ..	40031	8.8.33	20½	6,845	5·22	357·55	230	Jr. 2	.. ..	Mistletoe 2nds V.C. of Tarnpirr
Grangelea Doris	36966	28.8.33	17	5,888	5·76	339·16	250	Sr. 2	.. ..	Banyule Macon
Grangelea Pet	40063	6.9.33	14	5,762	5·50	317·05	230	Jr. 2	.. ..	Banyule Macon
Grangelea Bell	40060	8.9.33	14½	5,159	5·85	301·59	230	Jr. 2	.. ..	Grangelea Daffodil's Airo
Grangelea Damsel ..	36965	11.9.33	16½	6,363	6·75	429·80	270	Jr. 3	353 ..	Banyule Macon
Grangelea Pretty Roseleaf..	40064	14.9.33	13½	4,781	5·98	285·94	230	Jr. 2	.. ..	Banyule Macon
Grangelea Rosella ..	33042	16.9.33	16	6,945	5·16	358·32	310	Jr. 4	309, 404 ..	Banyule Airo
Grangelea Prim 3rd ..	33039	17.9.33	20½	7,937	5·66	449·28	310	Jr. 4	324, 461 ..	Banyule Airo
Bunty 2nd of Coliban ..	15485	23.9.33	26	10,535	5·03	529·74	350	Mature	365, 442, 483, 558, 582, 546, 555, 618	Carrie's Boy of Coliban
Grangelea Rosebud 5th ..	36967	24.9.33	17	6,993	5·29	369·75	250	Sr. 2	336 ..	Banyule Macon
Grangelea Velveteen ..	36968	24.9.33	17	6,756	5·10	344·27	270	Jr. 3	309 ..	Glenoshea Renegade
Grangelea Rose	33040	25.9.33	27	10,746	5·22	561·41	290	Sr. 3	411, 567 ..	Banyule Airo
Buchanan, J. M., Flinders, Ayrshire (15).										
Gleneira Florid	C.R.	28.6.33	4	4,632	3·72	172·37	250	Sr. 2	... ..	Gleneira Napier
Gleneira Honey Bread ..	18051	4.7.33	11½	9,627	3·68	354·43	350	Mature	371, 380 ..	A. 1 of Gleneira
Gleneira Chaos	26204	8.7.33	4	5,787	4·23	244·90	270	Jr. 3	.. ..	Gleneira Knight
Gleneira Houri	21526	8.7.33	10½	7,929	3·95	313·01	330	Sr. 4	281 ..	Gleneira McDonald
Gleneira Wattle	26211	9.7.33	7	6,293	3·96	249·44	270	Jr. 3	.. ..	Gleneira Knight
Gleneira Actual	22834	7.8.33	10	6,108	4·20	256·60	290	Sr. 3	246 ..	Gleneira Briton
*Gleneira Legacy ..	21529	8.8.33	4	5,505	3·72	204·57	330	Sr. 4	236, 240 ..	A. 1 of Gleneira
Gleneira Dandelion ..	18034	11.8.33	7½	7,811	3·73	291·13	350	Mature	328, 302, 284	Algie of Oakbank
Dabblair Alleyne ..	24773	15.9.33	15½	6,381	4·23	270·02	270	Jr. 3	242 ..	Gleneira Briton
Gleneira Acute	18016	16.9.33	7	7,844	3·93	307·93	350	Mature	315, 330, 308	Brilliant's Banner of Oakbank
Gleneira Decoy	20126	17.9.33	11	7,287	3·87	282·15	350	Mature	304, 163, 282	Algie of Oakbank
Gleneira Lady Gay ..	23843	17.9.33	8½	4,775	4·04	192·89	230	Jr. 2	.. ..	Gleneira Knight
Gleneira Deborah ..	26207	19.9.33	4	6,006	3·80	227·99	230	Jr. 2	.. ..	Gleneira Don
§Gleneira Hawthorn ..	20131	21.9.33	4	6,551	4·30	281·76	350	Mature	271, 290, 241	Algie of Oakbank
Gleneira Lapstone ..	22837	23.9.33	17½	7,383	3·45	254·36	290	Sr. 3	223, 260 ..	Gleneira Knight

* 240 days in test. † 90 days in test. ‡ 210 days in test. § 263 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Cayley, W. C., Werribee, Ayrshire (7).										
*Riversdale Pretty ..	24271	2.8.33	4	5,415	4·50	243·63	270	Jr. 3	.. ..	Hot Stuff of Sparrovale
Riversdale Opera Queen ..	20689	5.8.33	16	8,574	4·19	359·49	330	Sr. 4	403, 432 ..	Hot Stuff of Sparrovale
Riversdale Fancy ..	23200	10.8.33	22½	7,719	4·38	337·90	270	Jr. 3	.. ..	Hot Stuff of Sparrovale
Riversdale Picture ..	24269	20.8.33	22	7,722	4·38	338·55	230	Jr. 2	.. ..	Hot Stuff of Sparrovale
Riversdale Fickle ..	24262	6.9.33	18½	7,469	4·03	301·34	250	Sr. 2	.. ..	Riversdale Romeo
Riversdale Petty	24268	15.9.33	15½	7,166	4·35	312·00	230	Jr. 2	.. ..	Hot Stuff of Sparrovale
†Sparrovale Trefoil ..	16706	16.9.33	4	9,975	4·03	402·26	350	Mature	288, 335, 400, 389, 389	Scottish Fame of Gowrie Park
Chadderton, J. E., Hamilton, Jersey (3).										
Glen Leigh Dora 2nd ..	28532	5.7.33	20½	8,271	5·93	490·36	310	Jr. 4	356, 500 ..	Gadabout of Danton
Glen Leigh Duchess 5th ..	25792	20.8.33	15	7,928	5·97	473·56	350	Mature	338, 421, 488	Gadabout of Danton
Glen Leigh Doris 2nd ..	33096	15.9.33	15	6,405	5·90	377·81	290	Sr. 3	370 ..	Strathkellar Topthorn
Charlton, J., Stony Creek, Jersey (14).										
Lumeah Emma	33107	18.7.33	14½	6,275	5·26	329·92	290	Sr. 3	257, 334 ..	Banyule Molloik
Lumeah Starlight ..	33111	22.7.33	14½	6,294	5·48	345·12	290	Sr. 3	292, 308 ..	Burnside Invincible
Lumeah Lotus	33110	23.7.33	9	4,102	5·03	206·39	290	Sr. 3	226, 299 ..	Burnside Invincible
Lumeah Madge	40784	11.8.33	13½	5,086	4·87	247·62	230	Jr. 2	.. ..	Clarendon Eyre Eminent's Dinkie
Lumeah Sunshine ..	40791	17.8.33	14½	5,452	5·05	275·42	230	Jr. 2	.. ..	Clarendon Eyre Eminent's Dinkie
Lumeah Olive	40788	24.8.33	10	4,451	5·13	228·13	230	Jr. 2	.. ..	Burnside Invincible
Lumeah Blossom ..	40782	25.8.33	12½	4,786	4·77	228·31	230	Jr. 2	.. ..	Clarendon Eyre Eminent's Dinkie
Lumeah Heatherbelle ..	37049	27.8.33	15	6,333	5·60	354·76	250	Sr. 2	308 ..	Clarendon Eyre Eminent's Dinkie
Lumeah Betty	40781	1.9.33	14½	5,179	4·86	251·75	230	Jr. 2	.. ..	Burnside Invincible
Lumeah Eunice	37047	5.9.33	9	5,337	4·72	251·84	270	Jr. 3	289 ..	Banyule Molloik
Lumeah Mayflower ..	40786	7.9.33	12	4,446	4·57	203·14	230	Jr. 2	.. ..	Clarendon Eyre Eminent's Dinkie
Lumeah Lilac	33109	11.9.33	18	6,789	4·53	307·75	310	Jr. 4	256, 306 ..	Burnside Invincible
Lumeah Columbine ..	33105	12.9.33	15½	6,540	5·46	357·11	310	Jr. 4	338 ..	Burnside Invincible
Lumeah Violet	33112	17.9.33	11	6,417	5·71	366·57	310	Jr. 4	338, 338 ..	Burnside Invincible
Chester, E. N., Mount Scobie, Jersey (6).										
Radford Hibiscus ..	33116	27.7.33	15½	7,056	5·40	380·78	290	Sr. 3	231, 378 ..	Ballara Golden Lad
Radford Cream Girl ..	33115	4.8.33	7	5,211	5·32	277·00	290	Sr. 3	256, 297 ..	Economist of Aveley
Radford Joybell	37052	22.8.33	11½	5,327	5·49	292·24	250	Sr. 2	258 ..	Ballara Golden Lad
Radford Meadow Sweet ..	37053	23.8.33	14½	5,733	4·60	263·46	250	Sr. 2	244 ..	Ballara Golden Lad
Holmlea Myrtle	28542	25.8.33	14½	7,194	5·45	391·89	350	Mature	234, 383, 313, 317	Ballara Victor 2nd
Radford Fleur	Vol. 21	16.9.33	9½	5,477	5·10	279·48	230	Jr. 2	.. ..	Ballara Golden Lad
Chirnside, R. M., Whittlesea, Jersey (10).										
Mornmoot Northwood Madeira	33142	15.7.33	20	8,393	5·61	471·00	250	Sr. 2	381 ..	Werribee Prince Madeira
Mornmoot Model's Manche	37067	17.7.33	14	6,125	6·36	389·63	230	Jr. 2	.. ..	Mornmoot Starbright's King
Mornmoot Modesty 3rd ..	33139	19.7.33	17½	8,585	5·24	449·87	270	Jr. 3	345 ..	Werribee Prince Madeira
Brucevale Northwood Madeira 2nd	24295	21.7.33	16½	8,762	5·59	489·83	350	Mature	351, 412, 439, 597	Masterpiece of Brucevale
Mornmoot Minx	37066	26.7.33	N.O.C.	5,972	6·40	382·00	230	Jr. 2	.. ..	Werribee Prince Madeira
Air Girlie of the Falls ..	21583	8.8.33	..	11,873	5·53	656·57	350	Mature	328, 607, 596, 596	Air Pilot of Banyule
Ballara Starbright 6th ..	38783	8.8.33	..	7,808	4·94	385·97	230	Jr. 2	.. ..	Brucevale Lord Fancy Madeira
Mornmoot Melody's Miss ..	33135	25.8.33	N.O.C.	7,542	6·44	485·98	250	Sr. 2	455 ..	Werribee Prince Madeira
Staghorn Royal Lotus ..	37072	13.9.33	13	6,527	5·50	358·70	230	Jr. 2	.. ..	Staghorn Northlarks Masterpiece
Werribee Stella Princess ..	37073	26.9.33	11½	10,205	5·63	574·49	290	Sr. 3	440, 537 ..	Werribee Butter King
Chitty, C., Kongwak, Jersey (8).										
Ewelme Masters Nautilus ..	Vol. 21	15.7.33	11½	3,977	6·12	243·30	230	Jr. 2	.. ..	Northern Master of Glen Iris
Ewelme Norma	39690	29.7.33	12	4,408	6·49	286·21	250	Sr. 2	345 ..	Northern Master of Glen Iris
Ewelme Northern Necklace	33153	31.7.33	10	4,253	6·79	288·86	330	Sr. 4	381, 366, 372	Northern Master of Glen Iris
Ewelme Northern Holly ..	37079	8.8.33	12	5,136	6·25	321·23	290	Sr. 3	375, 312 ..	Northern Master of Glen Iris
Ewelme Connoisseur's Choice	33147	23.8.33	15	6,858	5·84	400·60	330	Sr. 4	375, 401 ..	Northern Master of Glen Iris
Ewelme Eastern Elaine ..	Vol. 21	12.9.33	12	4,929	5·20	256·36	230	Jr. 2	.. ..	Northern Master of Glen Iris
Ewelme Golden Dawn ..	28563	16.9.33	12½	6,147	5·39	331·18	350	Mature	440, 380, 380, 371	Northern Master of Glen Iris
Ewelme Girl	15467	25.9.33	11½	7,961	5·84	464·74	350	Mature	499, 572, 630, 512, 329	Werribee Wynadotte's Fancy
Christian, Mrs. N. C., Mortlake, Jersey (2).										
Staghorn Master's Clementine 6th	42006	6.7.33	15	6,161	5·65	347·93	250	Sr. 2	293 ..	Staghorn Northlark's Masterpiece
Maiwand Lilac	37358	23.9.33	4	5,160	5·26	271·60	270	Jr. 3	230 ..	Duke of Belgonia

* 240 days in test. † 210 days in test

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Christie, A., Yea, Jersey (3).										
Chrisholm Sparkler ..	39238	7.7.33	11	5,054	5·32	269·08	230	Jr. 2	.. ..	Wattle Grove Lord Juan
Chrisholm Rosy Girl ..	39237	9.7.33	10	4,788	4·24	202·80	230	Jr. 2	.. ..	Wattle Grove Peter
Sparklet of Green Meadows	21413	30.7.33	15	8,415	4·88	410·77	350	Mature	410, 510 ..	Werribee Madeira Cream's King
Christie, D. G. M., Echuca, Jersey (2).										
Aveley Tragedy Queen ..	29511	6.8.33	8½	8,858	5·02	444·94	350	Mature	303, 353, 434, 504	Economist of Aveley
Bovcagh Yvette	29512	6.8.33	7½	6,860	5·84	400·72	350	Mature	333, 377, 386, 454	Duke 2nd of Belgonia
Clark, F. W., Toora, Jersey (6).										
Mer-Vue Choice 2nd ..	Vol. 21	17.7.33	14½	5,084	6·08	309·17	230	Jr. 2	.. ..	Tooravale Silver King
Wood Butterball	42574	30.7.33	20	5,790	6·39	369·77	270	Jr. 3	.. ..	Blackwood Valley Skim
*Banyarra Sunbeam ..	Vol. 21	1.8.33	23½	4,635	5·28	244·46	230	Jr. 2	.. ..	Banyule Ventilation
Banyarra Trinket 3rd ..	Vol. 21	2.8.33	21	6,453	4·77	307·87	230	Jr. 2	.. ..	Banyule Ventilation
Wood Choice	28590	30.8.33	16	6,762	6·25	422·66	330	Sr. 4	.. ..	Blackwood Valley Skim
Hazelgrange Mistress ..	40188	12.9.33	21½	8,015	5·81	465·42	250	Sr. 2	356 ..	Master Clement of Glen Iris
Clark, P. W., Whittlesea, Jersey (2).										
Clovelly Annette 2nd ..	33165	27.7.33	18	7,740	5·36	415·05	350	Mature	284, 439 ..	Clovelly Chieftain
Laane Gloria	28572	8.9.33	16½	7,655	5·70	436·66	350	Mature	318, 451 ..	Laane Lord Chief
Clyne, J., Estate of the late, Upper Maffra West, Jersey (13).										
Fuchsia II. of Swansea ..	21190	30.6.33	15	7,667	5·22	400·44	350	Mature	230, 398, 342, 355, 383	Prince of Belgonia
Jersey Vale Lupin ..	25316	7.7.33	20	7,613	4·97	378·65	350	Mature	301, 377, 408, 432	Princess 2nd's Twylish of Grangelea
Paisley Pet	41471	10.7.33	16	4,526	5·73	259·16	250	Sr. 2	293 ..	Werribee Master Key
Paisley Laurette	Vol. 21	15.7.33	14½	4,997	5·14	256·95	230	Jr. 2	.. ..	Werribee Master Key
Jersey Vale Flower ..	25312	21.7.33	16	8,717	4·45	387·79	350	Mature	292, 346, 351, 414	Princess 2nd's Twylish of Grangelea
Paisley Patricia	C.R.	25.7.33	12	4,416	5·53	243·99	230	Jr. 2	.. ..	Werribee Master Key
Paisley Honey Comb ..	Vol. 21	13.8.33	13½	5,217	5·14	268·05	230	Jr. 2	.. ..	Werribee Master Key
Paisley Ora	41470	13.8.33	16	6,428	5·77	370·77	270	Jr. 3	281 ..	Werribee Master Key
Jersey Vale Mistletoe ..	25316	21.8.33	15	5,430	4·53	245·88	350	Mature	269, 357, 390	Princess 2nd's Twylish of Grangelea
Paisley Petal 3rd ..	C.R.	21.8.33	17½	6,453	5·46	352·40	250	Sr. 2	323 ..	Paisley Master Boy
Paisley Clarice	C.R.	3.9.33	4	3,878	5·30	205·36	230	Jr. 2	.. ..	Werribee Master Key
†Paisley Penelope ..	Vol. 21	5.9.33	4	6,248	5·20	324·72	250	Sr. 2	284 ..	Paisley Master Boy
‡Paisley Larkspur ..	Vol. 21	9.9.33	4	5,687	4·92	279·62	270	Jr. 3	282 ..	Monopole of Belgonia
Cockbill Bros., Bacchus Marsh, Ayrshire (6).										
Fulham Dot	16056	13.8.33	10	8,489	4·01	340·04	350	Mature	304, 391, 401	The Laird of Sparrovale
Warrook Favourite 2nd ..	22188	15.9.33	..	6,572	4·01	263·54	330	Sr. 4	302 ..	Fashion's Optimist of Warrook
Fulham Vim	C.R.	18.9.33	..	6,633	3·79	253·27	230	Jr. 2	.. ..	Fulham Victorious
Fulham Favourite ..	C.R.	19.9.33	..	4,662	4·39	204·63	230	Jr. 2	.. ..	The Laird of Sparrovale
Fulham Sunshine 2nd ..	C.R.	19.9.33	..	4,844	3·96	191·98	230	Jr. 2	.. ..	Fulham Victorious
Fulham Claire	26101	20.9.33	..	4,986	4·43	220·90	230	Jr. 2	.. ..	The Laird of Sparrovale
Cockbill Bros., Rockbank, Ayrshire (1).										
§Warrook Sunshine ..	22189	4.9.33	4	4,365	4·27	186·45	290	Sr. 3	178, 210 ..	Fashion's Optimist of Warrook
Cockbill Bros., Tongala, Ayrshire (1).										
Fulham Valveeta ..	22750	17.8.33	10½	6,911	4·02	277·59	290	Sr. 3	206, 280 ..	The Laird of Sparrovale
Colenso, L. W., Alvie, Jersey (3).										
||Buttercup of Hazelbrock ..	18665	13.8.33	4	6,735	5·48	368·97	350	Mature	331, 353, 436, 413, 425	Progress of Colac
||Normandie Primrose ..	33195	23.8.33	4	3,510	5·75	201·87	270	Jr. 3	239 ..	Normandie White Peer
Normandie Ilma	25329	9.9.33	18	7,095	5·10	361·65	350	Mature	325, 479, 445	Thelma's King of St. Albans
Coombes, T. A. P., Tongala, Jersey (12).										
Amwell Dauphine ..	28717	5.7.33	9	6,294	5·54	348·88	330	Sr. 4	363, 351 ..	Wireless of Belgonia
||Ivinghoe Buttercup ..	28596	20.7.33	4	5,115	5·29	270·57	350	Mature	268, 178, 286, 368	Belgonia Bright Twylish 2nd
Ivinghoe Buttercup 2nd ..	37130	24.7.33	9½	5,063	5·31	268·82	330	Sr. 4	279, 289 ..	Mate of Belgonia
Amwell Belle	34040	7.8.33	19	7,887	4·38	345·68	290	Sr. 3	284, 324 ..	Wireless of Belgonia
Amwell Tiny	38692	7.8.33	14½	6,267	4·62	289·39	270	Jr. 3	288 ..	Amwell Butterlad
Ivinghoe Rarity	Vol. 21	20.8.33	12	4,719	5·58	263·49	230	Jr. 2	.. ..	Beverly Monty
Swansea My Luck ..	28598	24.8.33	8½	7,148	4·69	335·05	350	Mature	369, 415, 437, 375	Prince of Belgonia
Ballara Flirt	Vol. 21	25.8.33	9	5,772	5·55	320·63	230	Jr. 2	.. ..	Brucevale Lord Fancy Madeira
Ivinghoe Buttercup 7th ..	Vol. 21	28.8.33	9½	5,424	5·27	285·95	230	Jr. 2	.. ..	Air Prince of Belgonia
Ballara Garenne's Fancy 7th	Vol. 21	2.9.33	7	4,068	6·27	255·11	230	Jr. 2	.. ..	Brucevale Lord Fancy Madeira
Ivinghoe Patricia 4th ..	37131	4.9.33	9	6,546	4·89	320·05	290	Sr. 3	201, 323 ..	Belgonia Air Prince
Aveley Starbright 6th ..	29376	19.9.33	7	6,426	5·65	363·34	350	Mature	394, 485 ..	Marc Antony of Aveley

* 255 days in test. † 257 days in test. ‡ 253 days in test. § 150 days in test. || 240 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Coughlan, Mrs. M., Walwa, Jersey (4).										
Erlstoun Victor's Owlette ..	37136	19.7.33	7	5,397	5·70	307·54	250	Sr. 2	242 ..	Kantarra Ku Ku's Victor
Banyule Hawthorn 16th ..	25459	8.8.33	12	7,704	5·12	394·23	350	Mature	447, 423 ..	Hoik of Banyule
Banyule Petal	25466	11.8.33	9	7,122	4·70	334·56	350	Mature	362, 407 ..	Concentration of Banyule
Banyule Silvermine 51st ..	25469	27.8.33	4	6,794	5·10	346·36	350	Mature	353, 418 ..	Hoik of Banyule
Cox, A., Mount Scoble, Jersey (12).										
Tavistock Fancy	Vol. 21	19.7.33	18	5,858	5·36	313·86	230	Jr. 2	.. ..	Werribee Ranger
Tavistock Mavis	42132	29.7.33	13	6,796	5·87	398·76	270	Jr. 3	355 ..	Audrey's Prince of Banyule
Tavistock Joy	Vol. 21	6.8.33	13	4,751	5·18	246·02	230	Jr. 2	.. ..	Orphanage Quicksand's Prince
Tavistock Doris	42129	17.8.33	11½	5,901	5·95	350·83	250	Sr. 2	349 ..	Delmont Masterpiece
Tavistock Graceful ..	Vol. 21	17.8.33	9	5,094	5·54	282·44	230	Jr. 2	.. ..	Werribee Ranger
Tavistock Daphne ..	Vol. 21	22.8.33	9	4,553	6·13	279·11	230	Jr. 2	.. ..	Werribee Ranger
Tavistock Virtue	42138	24.8.33	11	5,705	5·67	323·66	250	Sr. 2	449 ..	Delmont Masterpiece
Tavistock Heather ..	Vol. 21	31.8.33	11	4,718	5·75	271·09	230	Jr. 2	.. ..	Werribee Ranger
Tavistock Clarice ..	42127	5.9.33	9½	6,216	5·24	325·46	270	Jr. 3	236 ..	Audrey's Prince of Banyule
Tavistock Mermaid ..	23058	7.9.33	16½	9,452	4·89	462·19	350	Mature	385, 443, 529	Mystery's Twylish of Tavistock
Tavistock Honesty's Queen	23056	14.9.33	11	7,152	5·75	411·07	350	Mature	407, 452, 490	Vanilla's King of Tavistock
Tavistock Beauty ..	33217	21.9.33	7½	7,058	5·18	365·61	310	Jr. 4	277 ..	Moorella Ranger
Dee, J., North Clyde, Jersey (2).										
Clydevale Daisy	29808	26.8.33	9	3,831	6·75	258·47	330	Sr. 4	209 ..	Petal's Duke of Clydevale
Clydevale Cassie	39290	25.9.33	14½	5,097	5·16	262·79	230	Jr. 2	.. ..	Banyule Aristocrat
De la Rue, N. C., Weering, Jersey (6).										
Lucerne Vale Ella's Trixie..	28646	28.6.33	14	5,903	5·99	353·52	290	Sr. 3	282, 311 ..	Lucerne Vale Trixie's Progress
Lucerne Vale Viscount's Silvermine 3rd	37204	1.7.33	18½	6,938	5·45	378·37	250	Sr. 2	331 ..	Somerville Battle
Lucerne Vale Battle's Trixie 3rd	28645	6.7.33	22	8,262	5·29	436·70	310	Jr. 4	346, 417 ..	Somerville Battle
Myalla Millie 2nd ..	34066	12.7.33	17½	6,716	5·68	381·23	290	Sr. 3	326, 314 ..	Somerville Battle
Lucerne Vale Trixie 2nd ..	23087	7.8.33	21½	8,364	5·40	451·61	350	Mature	365, 418, 496, 419, 445	Lord Phyllis of Bruce Vale
Lucerne Vale Viscount's Noble Queen	21243	21.9.33	N.O.C.	9,351	5·49	513·22	350	Mature	381, 373, 619, 456	Lord Phyllis of Bruce Vale
Department of Agriculture, Burnley, Jersey (1).										
Victoria Winsome ..	37218	22.9.33	19	6,617	5·70	376·84	230	Jr. 2	.. ..	Victoria Master Mariner
Department of Agriculture, Werribee, Friesian (1).										
Victoria Domino Patch ..	3255	3.9.33	26½	12,534	3·52	441·23	350	Mature	382, 372, 408	Victoria Patch
Department of Agriculture, Werribee, Red Poll (7).										
Victoria Bell Royal ..	2305A	11.7.33	5	7,790	4·50	350·20	350	Mature	323, 296, 345	Vice Regal
Victoria Cross	2313A	19.7.33	13½	6,425	4·53	291·24	350	Mature	338, 298, 266	Belligerent
Victoria Tinka Bell ..	2434B	29.7.33	N.O.C.	4,167	4·08	170·07	350	Mature	174, 249 ..	Vice Regal
Victoria Braid	1654A	8.8.33	12	9,786	4·02	393·41	350	Mature	318, 369, 360, 373	Belligerent
Victoria Purse	2332A	28.8.33	18	8,667	4·51	391·27	350	Mature	327, 318, 425	Victoria Air Marshall
Victoria Blouse	2428B	16.9.33	12	6,137	4·96	304·49	350	Mature	302, 303, 320	Bit-o-Bacca
Victoria Velvet Curl ..	1521A	22.9.33	8	8,258	4·82	397·80	350	Mature	334, 337, 333, 374	Belligerent
Desmond, J. J., Rochester, Jersey (6).										
Taranah Fairy	16716	24.7.33	20½	9,477	5·91	559·83	350	Mature	474, 558 ..	Lily 6ths Son of Melrose
Macroom Edna	40852	25.7.33	17½	7,452	5·35	399·05	270	Jr. 3	380 ..	Belgonia Battery
Macroom Ellen	37221	5.8.33	19	7,049	5·10	359·65	270	Jr. 3	293 ..	Belgonia Battery
Waratta Ellen Bell ..	28661	28.8.33	22½	8,996	5·16	464·11	350	Mature	392, 445, 479, 450	Jubilee Lifelight
Macroom Peggy	Vol. 21	29.8.33	16	7,596	5·47	415·15	250	Sr. 2	352 ..	Belgonia Battery
Macroom Fern Dell ..	Vol. 21	14.9.33	15	6,302	5·31	334·43	230	Jr. 2	.. ..	Belgonia Battery
Dobson, R. J. M., Acheron, Jersey (11).										
Wattle Grove Precious Pet	25843	2.7.33	21½	8,876	4·38	388·85	350	Mature	337, 327, 303, 435	Alert of Farrington
Wattle Grove Susan ..	37240	2.7.33	15	7,403	4·83	357·29	250	Sr. 2	.. ..	Clarendon Eyre Eminent's Fortune Hunter
Wattle Grove Pearl ..	37237	11.7.33	13½	6,086	4·73	288·02	250	Sr. 2	290 ..	Admiral of Fairview
Wattle Grove Jeanette ..	25840	19.7.33	18½	8,226	4·61	379·10	350	Mature	314, 363, 407, 385	Albert of Farrington
Wattle Grove Beauty ..	42449	24.7.33	19½	6,201	5·61	348·08	230	Jr. 2	.. ..	Wattle Grove Sydney
Wattle Grove Sun Gold ..	42454	14.8.33	14½	4,979	5·75	286·19	230	Jr. 2	.. ..	Wattle Grove Sydney
Wattle Grove Starlight ..	37239	17.8.33	20	8,174	5·03	410·75	250	Sr. 2	382 ..	Clarendon Eyre Eminent's Fortune Hunter
Wattle Grove Lady ..	42451	14.9.33	11	5,658	4·87	275·36	230	Jr. 2	.. ..	Wattle Grove Sydney
Wattle Grove Sally ..	37238	20.9.33	13	6,957	4·90	340·96	270	Jr. 3	.. ..	Clarendon Eyre Eminent's Fortune Hunter
Wattle Grove Jennywren ..	37236	22.9.33	12	6,263	5·29	331·06	270	Jr. 3	356 ..	Wattle Grove Jenner
Wattle Grove Sunbeam ..	25844	24.9.33	25	11,022	4·19	462·37	350	Mature	386, 393, 421, 477	Alert of Farringdon

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Dookie Agricultural College, Dookie, Ayrshire (5).										
Dookie Patience	23670	2.7.33	22	8,900	4·08	362·96	290	Sr. 3	380	Majestic of Burwood
Dookie Stella	23674	2.7.33	12	6,903	4·25	293·15	310	Jr. 4	292	Dookie Beam
Dookie Floss	23663	27.8.33	14½	8,944	3·81	340·55	290	Sr. 3	406	Longernong Laurie
Dookie Adept	24813	21.9.33	20	10,029	4·24	424·95	290	Sr. 3	406	Longernong Laurie
Dookie Adele	25040	23.9.33	22½	8,247	3·62	298·69	250	Sr. 2	..	Dookie Patron
Downie Bros., Longwarry South, Ayrshire (14).										
Glen View Nessie 3rd	C.R.	17.7.33	6½	5,205	4·25	221·44	250	Sr. 2	..	Gowrie Park Standard Bearer
Glen View Lady 3rd	23396	28.7.33	7½	4,424	4·45	196·78	230	Jr. 2	..	Glen View Dairymaster
Glen View Trixie 2nd	26313	2.8.33	15½	7,535	4·36	328·26	250	Sr. 2	251	Gowrie Park Standard Bearer
*Glen View Bobbie 2nd	21607	3.8.33	4	6,220	4·08	253·96	330	Sr. 4	177, 287	Gowrie Park Dairyboy
Glen View Betty 2nd	21605	18.8.33	8	5,784	4·49	259·94	330	Sr. 4	220, 317	Gowrie Park Dairyboy
Glen View Odette 3rd	26311	19.8.33	8	6,658	4·28	285·16	310	Jr. 4	213, 239	Gowrie Park Dairyboy
Glen View Brownie 4th	26310	20.8.33	14½	7,094	4·32	306·69	270	Jr. 3	320	Gowrie Park Dairyboy
Glen View Innocence 2nd	23893	1.9.33	13	6,982	4·42	308·51	290	Sr. 3	205, 337	Gowrie Park Dairyboy
Glen View Ada 3rd	21602	5.9.33	6½	5,345	4·55	243·30	350	Mature	220, 242	Gowrie Park Dairyboy
*Glen View Bella 2nd	26308	8.9.33	24½	7,259	3·87	280·62	310	Jr. 4	194, 270	Gowrie Park Dairyboy
Gowrie Park Nessie	14444	20.9.33	4	4,480	3·60	161·11	350	Mature	179, 248	Bonny Blair of Gowrie Park
Glen View Bobbie 3rd	25024	23.9.33	14	7,148	4·15	296·88	250	Sr. 2	244	Gowrie Park Standard Bearer
Glen View Nessie 2nd	25025	23.9.33	14	7,708	4·29	331·00	310	Jr. 4	226, 326	Gowrie Park Dairyboy
Glen View Brownie 2nd	21607	26.9.33	5	7,166	4·11	294·78	350	Mature	245, 289	Gowrie Park Dairyboy
Ducat, P. J., and Sons, Ardmona, Jersey (5).										
Airlie Canary	33311	18.7.33	15½	6,408	5·56	356·27	350	Mature	..	Twist of Banyule
Airlie Beatrice 4th	38646	6.8.33	9	4,955	5·39	266·83	230	Jr. 2	..	Banyule Endeavour
Airlie Handsome Girl 2nd	38651	9.8.33	11½	5,481	6·21	340·45	290	Sr. 3	228	Hedge of Banyule
Airlie Mardi 2nd	38653	4.9.33	16½	6,679	5·18	345·78	270	Jr. 3	320	Maybe of Banyule
Airlie Duchess 10th	38650	18.9.33	13½	6,119	4·43	271·08	230	Jr. 2	..	Banyule Endeavour
Dwyer, G., Balwyn, Jersey (3).										
Karalee Linda 2nd	Vol. 21	14.7.33	17½	4,218	6·06	255·79	230	Jr. 2	..	Karalee Volunteer 4th
Karalee Lola	40495	6.8.33	20½	6,306	5·97	376·61	250	Sr. 2	307	Karalee Volunteer 4th
†Karalee Lady Betty	Vol. 21	10.9.33	4	1,170	6·04	70·62	230	Jr. 2	..	Karalee Volunteer 5th
Earle, S. N., Clyde, Jersey (2).										
Goldfield's Tragedy 5th	28680	4.7.33	12½	5,918	4·50	266·59	350	Mature	249, 297	Assayer of Banyule
Benguella Beautiful Maiden	C.R.	26.7.33	6	2,702	5·71	154·23	230	Jr. 2	..	Benguella Sunspot
Edwards, T. J., Sale, Jersey (6).										
Fairholme Princess Tulip	37319	5.8.33	19	7,361	5·47	402·72	290	Sr. 3	..	Prince Rinda (Imp. N.Z.)
Chandos Diana	29681	6.8.33	20	9,123	5·12	467·11	310	Jr. 4	425	Rosemont Prince 2nd Noble
Chandos Noble Primrose	39232	10.8.33	20	7,750	5·96	462·26	230	Jr. 2	..	Merami Noble
Chandos Island Princess	37313	12.8.33	20	8,744	5·60	489·65	290	Sr. 3	354	Fairbank Peter
Pine Park Cream Girl 2nd	41577	20.8.33	13	7,261	4·61	334·47	250	Sr. 2	343	Goranga Farm Jester
Chandos Joy	39227	31.8.33	16	5,717	5·66	323·47	230	Jr. 2	..	Fairholme Prince's Lad
Emmett, W. H., Stanhope, Jersey (10).										
Five Gums Primula 6th	37335	6.7.33	13	6,234	5·69	354·50	250	Sr. 2	359	Staghorn Clementine Masterpiece 2nd
Coolwoola Montrose Gem 3rd	33930	19.7.33	9	4,407	5·46	240·82	350	Mature	..	Montrose Dancer of Glen Iris
Taranah Fancy	29084	2.8.33	17	6,782	5·90	400·02	330	Sr. 4	235, 342, 453	Royal Rose's Choice of Tarnpirr
Kantara Daffodil	33676	13.8.33	12½	7,944	4·47	354·83	290	Sr. 3	328, 351	Valiant Count of Glen Iris
Coolwoola Marchfly 4th	33929	19.8.33	13½	7,366	4·77	351·49	350	Mature	324, 441	Mercedes Golden Prince of Glen Iris
Taranah Rosina	29087	30.8.33	9	5,846	5·71	333·63	330	Sr. 4	235, 338, 411	Royal Rose's Choice of Tarnpirr
Retford Molly 2nd	41762	31.8.33	10½	5,135	5·63	289·18	230	Jr. 2	..	Retford Glider
Shenstone Pearl 2nd	41955	10.9.33	4	3,105	6·28	194·90	230	Jr. 2	..	Coolwoola Vanilla 2nd's Lad
Coolwoola Pearl 5th's Princess	39360	20.9.33	7½	5,628	4·98	280·26	310	Jr. 4	..	Montrose Dancer of Glen Iris
King's Vale Linda 81st	32881	24.9.33	11½	5,175	6·02	311·42	290	Sr. 3	292, 390	King's Vale Rosella 12th's Lad
Enders, N. H., Stanhope, Jersey (20).										
Locklea Seville Orange	23401	14.7.33	16½	8,038	5·31	427·00	350	Mature	533, 536, 557	Prince of Wales of Hillcrest
The Wattles Betty 3rd	42205	14.7.33	13½	5,906	5·80	342·73	230	Jr. 2	..	Banyule Supine
The Wattles Foxglove	37344	22.7.33	13	6,729	5·10	343·27	250	Sr. 2	359	Prince of The Wattles
The Wattles Pearl 3rd	42210	22.7.33	16	6,332	5·66	358·51	230	Jr. 2	..	The Wattles Biplane
The Wattles Pearl	23125	24.7.33	24½	9,147	5·17	473·16	350	Mature	338, 459, 548	Choice Prince of Belgonia
Rintoul View Moleen	37338	29.7.33	20½	9,119	6·45	588·29	250	Sr. 2	495	Banyule Triplane
Rintoul View Petal	37339	29.7.33	20	9,710	5·68	551·98	250	Sr. 2	484	Banyule Triplane
Northern Princess of Glen Iris	21417	2.8.33	23	8,246	5·19	428·17	350	Mature	373, 368, 435	Northern Master of Glen Iris

* 240 days in test. † 90 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Enders, N. H., Stanhope, Jersey—*continued.*										
The Wattles Duchess 3rd ..	33984	21.8.33	21½	7i910	5·27	416·58	290	Sr. 3	411, 544 ..	Choice Prince of Belgonia
The Wattles Duchess 4th ..	37343	1.9.33	11	8,016	4·87	390·63	270	Jr. 3	356 ..	Prince of The Wattles
The Wattles Romany Lass	25872	10.9.33	15	8,223	5·42	445·97	350	Mature	446, 515 ..	Choice Prince of Belgonia
The Wattles Lady ..	33985	15.9.33	10	6,845	5·88	402·71	310	Jr. 4	323, 478 ..	Choice Prince of Belgonia
The Wattles Marie ..	33986	15.9.33	17½	9,821	5·12	502·49	310	Jr. 4	418, 516 ..	Prince of The Wattles
*The Wattles Tulip ..	25873	17.9.33	4	5,355	5·01	268·35	350	Mature	341, 342, 474	Prince of The Wattles
The Wattles Betty ..	33982	19.9.33	13	7,534	5·84	439·75	310	Jr. 4	328, 444 ..	Choice Prince of Belgonia
Arishma Joyful	37337	19.9.33	23	9,479	4·70	445·24	350	Mature	394, 471, 510	Burnside Majestic
The Wattles Joy 2nd ..	42208	23.9.33	16½	6,153	5·03	309·51	230	Jr. 2	.. ..	Banyule Supine
The Wattles Orange Petal	33988	23.9.33	14	7,882	4·61	363·44	310	Jr. 4	346 ..	Prince of Wales of Hillcrest
Banyule Silvermine 77th ..	37781	23.9.33	18½	7,102	5·65	401·39	250	Sr. 2	.. ..	Banyule Superstrain
The Wattles Molly 2nd ..	37347	24.9.33	21½	9,366	5·04	471·96	270	Jr. 3	444 ..	Banyule Lord Silvair
Esler, G., Tongala, Jersey (11).										
Maiwand Iris	37356	11.7.33	19	7,215	5·16	372·59	250	Sr. 2	350 ..	Maiwand Mischief
Maiwand Buttercup 2nd ..	37351	14.7.33	7	4,073	4·70	191·26	250	Sr. 2	302 ..	Duke of Belgonia
Maiwand Countess ..	37352	15.7.33	14	6,588	5·05	332·72	290	Sr. 3	334, 332 ..	Duke of Belgonia
Maiwand Floss	25878	17.7.33	16	7,848	4·87	381·84	350	Mature	321, 350, 457, 488, 439	Duke of Belgonia
Maiwand Violet	25884	17.7.33	18½	7,283	5·10	371·10	350	Mature	300, 379, 428, 403	Maiwand Chief
Maiwand Daffodil ..	37353	25.7.33	16	8,099	4·90	396·87	310	Jr. 4	366, 444 ..	Duke of Belgonia
Maiwand Pansy	37360	25.7.33	15½	8,377	5·30	444·11	290	Sr. 3	331, 429 ..	Duke of Belgonia
Ballara Ideal 4th ..	Vol. 21	1.8.33	14½	6,807	5·01	340·75	230	Jr. 2	.. ..	Ballara Neat Lad
Maiwand Lily	Vol. 21	21.8.33	8½	5,623	4·88	274·18	230	Jr. 2	.. ..	Aveley Rex
†Maiwand Mystery ..	37359	30.8.33	8½	8,460	4·89	413·32	290	Sr. 3	324, 514 ..	Duke of Belgonia
Maiwand Hyacinth ..	37355	8.9.33	14	7,524	5·38	404·76	310	Jr. 4	407, 457 ..	Duke of Belgonia
Evans, A., Heywood, Jersey (5).										
Boronia Farm Amy ..	37362	19.8.33	12	6,292	4·82	303·40	270	Jr. 3	301 ..	Boronia Farm Prince
Alfalfa of Springhurst ..	14237	2.9.33	N.o.c.	9,186	4·86	446·06	350	Mature	273, 341, 438, 426, 444, 416	Superior V.C. of Tarnpirr
Comfrey of Springhurst ..	16332	15.9.33	19	8,894	3·95	351·02	350	Mature	432, 459, 439, 380, 376, 367	Alloy of Banyule
Boronia Farm Lassie ..	37364	21.9.33	9½	5,624	4·43	249·41	270	Jr. 3	319 ..	Boronia Farm Prince
Boronia Farm Alfalfa ..	37361	22.9.33	14	5,682	5·37	305·09	270	Jr. 3	283 ..	Boronia Farm Prince
Fairchild and Clutterbuck, Tinamba, Jersey (2).										
Enterprise Tilly	23131	10.7.33	26	9,674	4·61	445·63	350	Mature	301, 434, 470, 398, 512	Royal Gem of Somerville
Vaucluse Madeira 3rd ..	Vol. 21	28.7.33	11	4,481	5·55	248·80	230	Jr. 2	.. ..	Somerville Concentration
Findlay, G., Leitchville, Jersey (5).										
Leven Brae Peeress 5th ..	40704	31.7.33	22	8,315	5·28	385·87	250	Sr. 2	358 ..	Werribee Gaypiece
Leven Brae Madeira's Dainty	40702	1.8.33	20½	7,658	5·80	444·19	250	Sr. 2	474 ..	Werribee Gaypiece
Leven Brae Rosabelle ..	40705	18.8.33	14	5,678	6·39	362·98	250	Sr. 2	321 ..	Werribee Gaypiece
Leven Brae Gaiety ..	33339	27.8.33	8	7,938	6·08	482·52	330	Sr. 4	320, 537, 480	Werribee Gaypiece
Leven Brae Mary Florence	40703	17.9.33	13½	6,714	5·90	396·31	270	Jr. 3	375 ..	Leven Brae Perrie's Masterpiece
Findlay, T. R., Leitchville, Jersey (6).										
Leven Brae Gay Capture ..	37375	1.7.33	17	8,135	5·62	457·25	250	Sr. 2	420 ..	Werribee Gaypiece
Leven Brae Gay Daisy ..	Vol. 21	14.8.33	16½	6,490	5·76	373·86	230	Jr. 2	.. ..	Werribee Gaypiece
Leven Brae Choice ..	Vol. 21	18.8.33	16½	6,124	5·25	321·32	230	Jr. 2	.. ..	Werribee Gaypiece
Leven Brae Peeress 6th ..	Vol. 21	20.8.33	15½	6,186	5·24	324·35	230	Jr. 2	.. ..	Werribee Gaypiece
Leven Brae Gay Mistress ..	Vol. 21	27.8.33	12	6,110	5·81	355·20	270	Jr. 3	360 ..	Werribee Gaypiece
Leven Brae Estelle ..	Vol. 21	3.9.33	15½	6,166	5·95	366·63	230	Jr. 2	.. ..	Werribee Gaypiece
Fisken, A. C., Yendon, Dairy Shorthorn (3).										
Morven Cressida 28th ..	D.S.H. B.A.	6.8.33	8	6,804	3·93	267·36	350	Mature	189, 193, 221, 251	Connaught 60th
Lal Lal Princess 2nd ..	D.S.H. B.A.	21.8.33	15	5,976	4·22	252·42	250	Sr. 2	.. ..	Hillcrest Renown 17th
Lal Lal Queenie	D.S.H. B.A.	1.9.33	14	5,312	4·24	224·99	290	Sr. 3	.. ..	Hillcrest Renowm 17th
Fixter, A., Boisdale, Guernsey (4).										
Avonview Juno's Maid ..	3311	8.8.33	15	4,875	5·16	251·42	230	Jr. 2	.. ..	Melbourne Sand Boy 6th
Avonview Lady	3312	18.9.33	14	5,550	5·23	290·19	250	Sr. 2	248 ..	Melbourne Sand Boy 6th
Avonview Dulcie ..	2537	20.9.33	..	6,371	5·40	344·14	290	Sr. 3	294, 317 ..	Melbourne Sand Boy 6th
Avonview Princess ..	3313	20.9.33	..	7,913	5·30	419·07	310	Jr. 4	326, 345 ..	Melbourne Sand Boy 6th
Flegg, J. R., Kerang, Jersey (2).										
Leven Brae Lady Grey ..	40701	18 8 33	16	6,408	5·62	360·13	250	Sr. 2	.. ..	Werribee Gaypiece
Leven Brae Gay Countess 2nd	40699	26 8 33	11½	5,210	5·46	284·37	250	Sr. 2	.. ..	Werribee Gaypiece

* 210 days in test. † 240 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Foster Bros., Boisdale, Jersey (8).										
Studleigh Master's Kirsty ..	33077	29.6.33	28	10,134	5·43	550·31	290	Sr. 3	404, 541 ..	Studleigh Masterpiece
Boisdale Netta	37385	4.7.33	16	6,316	5·77	364·53	290	Sr. 3	300 ..	Boisdale Fox
Staghorn Master's Beauty..	23148	10.7.33	20	7,260	5·00	362·81	350	Mature	321, 414, 382, 456	Werribee Northern Masterpiece
Kings Vale Canary 24th ..	28324	19.7.33	17	6,151	5·33	328·07	350	Mature	303, 330, 395	Linda 55ths V.C's. of King Vale
Kirkhill Joan	24508	6.8.33	13	5,854	5·54	324·22	350	Mature	267, 307, 386	Daphne 3rds Progress of Kirkhill
Boisdale Joan	28700	12.8.33	12	4,538	5·89	267·13	330	Sr. 4	306 ..	Kirkhill Don
Pine Park Lady's Choice 2nd	41580	7.9.33	13	6,154	5·17	318·07	250	Sr. 2	341 ..	Goranga Farm Jester
Pine Park Duchess 2nd ..	41579	18·9·33	11	6,952	4·81	334·11	250	Sr. 2	298 ..	Goranga Farm Jester
Fraser, G. A., Addington, Ayrshire (7).										
Bonnie Doon Heather ..	22525	1.7.33	28½	10,471	5·32	557·49	270	Jr. 3	378 ..	Carlo of the Valley
Bonnie Doon Myrtle ..	21063	8.8.33	22	9,270	4·07	377·54	290	Sr. 3	.. ..	Carlo of the Valley
*Bonnie Doon Flora ..	23465	7.9.33	4	2,750	5·24	144·19	250	Sr. 2	.. ..	Bonnie Doon Dudley
Craigielea Sylvia	17686	16 9 33	14½	9,194	4·69	431·13	350	Mature	326, 259, 294, 352	Petunia's Prince of Glenciera
Tooleen Winnie	14895	18 9 33	17	9,319	4·31	401·64	350	Mature	262 ..	Peer 2nd of Glengowrie
Bonnie Doon Winsome ..	23468	19.9.33	16	6,341	4·56	289·28	230	Jr. 2	.. ..	Blair Athol Dream Boy
Glengowrie Avis	26223	23.9.33	5½	5,802	4·02	232·99	330	Sr. 4	.. ..	Ladybank Luminious
Freestone, P. A., Murchison, Jersey (3).										
Audley Romany's Pearl ..	Vol. 21	8.8.33	17	6,053	4·68	283·40	230	Jr. 2	.. ..	Belgonia Cobham
Jerseyvale Duchess ..	34008	16.8.33	18½	6,656	4·88	324·84	310	Jr. 4	260, 421 ..	Princess 2nds Twylish of Grangelea
Audley Doris Buttercup ..	Vol. 21	25.8.33	20	6,770	4·11	278·00	230	Jr. 2	.. ..	Belgonia Cobham
Gardener Bros., Welshpool, Jersey (19).										
Lauriston Mistress Pansy ..	40644	28.7.33	16	4,685	5·35	250·88	230	Jr. 2	.. ..	Rathlyn Lily's Master
Lauriston Charming Belle ..	24356	29.7.33	18½	6,267	5·24	328·60	350	Mature	215, 283, 335, 335, 359	Maudbank Hero
Lauriston Princess Royal ..	37410	2.8.33	19	6,495	5·02	326·11	290	Sr. 3	242 ..	Lauriston Twylish Nobility
Lauriston Lady Twylish ..	25891	15.8.33	20	7,331	4·61	337·67	350	Mature	249, 302, 288, 356	Lauriston Twylish Nobility
Lauriston Lotus Queen ..	37409	20.8.33	20	7,023	5·15	361·49	250	Sr. 2	280 ..	Lauriston Twylish Nobility
Lauriston Lady Twylish 2nd	34015	22.8.33	18	5,997	5·85	350·66	290	Sr. 3	307, 359 ..	Lauriston Twylish Nobility
Lauriston Lady Lotus 2nd..	34014	24.8.33	17½	7,211	5·84	421·41	290	Sr. 3	218, 363 ..	Lauriston Twylish Nobility
Lauriston Twylish Belle ..	34017	24.8.33	16	5,916	5·26	310·90	290	Sr. 3	261, 352 ..	Lauriston Twylish Nobility
Lauriston Butter Belle ..	28704	25.8.33	15	6,678	5·66	378·03	330	Sr. 4	251, 307, 353	Lauriston Twylish Nobility
Lauriston Cream Belle ..	24357	25.8.33	16	7,010	5·29	371·09	350	Mature	244, 291, 333, 342, 391	Musician of Warenda
Lauriston Island Belle ..	37407	25.8.33	16½	4,805	5·72	274·96	250	Sr. 2	297 ..	Jerseyholm Island King 7th
Lauriston Noble Belle ..	28705	26.8.33	6½	5,519	5·29	291·68	330	Sr. 4	244, 244, 298	Lauriston Twylish Nobility
Lauriston Golden Belle ..	34012	31.8.33	21½	7,447	4·71	350·90	290	Sr. 2	241, 348 ..	Lauriston Twylish Nobility
Lauriston Snowshoes Duchess	25893	3.9.33	12½	6,752	5·57	376·41	350	Mature	257, 297, 334, 350	Lauriston Twylish Nobility
Lauriston Miss Twylish ..	40642	10.9.33	15	6,017	5·06	304·24	230	Jr. 2	.. ..	Rathlyn Lily's Master
Lauriston Golden Belle 2nd	40638	11.9.33	13½	4,569	5·32	242·99	230	Jr. 2	... ..	Lauriston Twylish Nobility
Lauriston Island Lady ..	34013	17.9.33	16	5,633	5·56	313·38	310	Jr. 4	239, 316 ..	Jerseyholm Island King 7th
Lauriston Brown Belle ..	40637	26.9.33	16	5,640	5·48	308·81	230	Jr. 2	.. ..	Lauriston Twylish Nobility
Lauriston Musical Belle ..	25892	26.9.33	18	7,599	5·47	415·56	350	Mature	231, 283, 210, 340	Musician of Warenda
Gay, R. G., North Devon, Jersey (8).										
Linda 63rd of Kings Vale ..	18672	10.8.33	24½	9,647	4·61	444·32	350	Mature	428, 508, 452, 512	Rosella's V.C. of Kings Vale
Elm Grove Jessie Fowler ..	25900	11.8.33	22½	8,474	5·02	425·47	350	Mature	274, 391, 475	King William of Rockdale
Elm Grove Lady Fowler ..	34021	17.8.33	20½	8,301	5·72	474·67	310	Jr. 4	326, 495 ..	Gold Star of Melrose
Elm Grove Blue Bell ..	33355	19.8.33	15½	6,550	6·17	404·15	330	Sr. 4	314, 325, 422	Elm Grove Royal Lad
Elm Grove Dairymaid ..	25899	24.8.33	20½	8,381	5·05	423·15	350	Mature	280, 262, 417, 468	Gold Star of Melrose
Elm Grove Silvermine ..	39643	5.9.33	11	5,592	5·55	310·39	230	Jr. 2	.. ..	Warenda Ragtime Dominant
Elm Grove Silver Belle ..	23159	7.9.33	13½	7,804	5·61	437·44	350	Mature	296, 338, 423, 441, 478	Gold Star of Melrose
Elm Grove Linda ..	Vol. 21	14.9.33	14	5,702	5·00	284·96	230	Jr. 2	.. ..	Gold Star of Melrose
Gilchrist, A. J., Koo-wee-rup, Jersey (1).										
Linga Longa Brilliance 2nd	Vol. 21	7.7.33	13½	5,322	5·93	315·65	230	Jr. 2	.. ..	Linga Longa Banshee
Goddard, J. H., Jumbunna, Ayrshire (5).										
Oakbank Bramble ..	18717	14.7.33	4	7,562	3·85	291·41	350	Mature	.. ..	Oakbank Spotlight
Donside Mary	23659	20.7.33	12½	8,172	3·75	306·51	310	Jr. 4	.. ..	Loco of Lady Bank
Oakbank Moonray ..	18756	4.8.33	7	7,133	4·10	292·75	350	Mature	.. ..	Summit of Lady Bank
Oakbank Really	15259	4.8.33	12	8,807	3·99	351·18	350	Mature	.. ..	Melville of Oakbank
Donside Loco Lady	23656	25.8.33	7	7,827	3·48	272·03	350	Mature	.. ..	Loco of Lady Bank

* 120 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Gorman, A. W., Alexandra, Ayrshire (8).										
Cathcart Faith	22590	20.7.33	20	8,482	4·13	349·99	270	Jr. 3	322 ..	Ben Kell Watford
Cathcart Foam	23562	3.8.33	7	4,542	4·93	223·81	230	Jr. 2	.. ..	Ben Kell Watford
Cathcart Lady Mac ..	19717	5.8.33	11	8,058	5·02	404·28	330	Sr. 4	298, 412 ..	Poppy's Advance of Ben Kell
Cathcart Mayflower ..	19719	11.8.33	14	7,887	5·29	417·38	330	Sr. 4	378, 461 ..	Cathcart Mentor
Cathcart Marion	21139	22.8.33	14	8,112	4·58	371·31	290	Sr. 3	264, 340 ..	Ben Kell Watford
Cathcart Bridesmaid ..	22588	24.9.33	17	8,498	4·32	367·31	270	Jr. 3	315 ..	Ben Kell Watford
Cathcart Poppy	15868	24.9.33	14	8,445	4·30	363·28	350	Mature	258, 360, 400	Poppy's Advance of Ben Kell
Cathcart Winsome ..	22594	25.9.33	12	6,921	4·40	304·53	250	Sr. 2	317 ..	Poppy's Advance of Ben Kell
Gregg, V., Whittlesea, Jersey (1).										
Stoneycroft Blossom ..	28718	26.7.33	18	7,328	5·63	412·23	350	Mature	346, 426 ..	Glentwylish
Handbury, J. E. and Sons, Toora, Jersey (Home Farm) (13).										
Tooravale Lassie 11th ..	Vol. 21	22.7.33	11	3,894	5·60	218·27	230	Jr. 2	.. ..	Tooravale Goldspeck
Tooravale Princess 4th ..	28738	29.7.33	17	5,826	5·61	327·03	330	Sr. 4	244, 364 ..	Tooravale Goldspeck
Lassie Fowler of Tooravale	18728	29.7.33	19	7,242	5·70	412·59	350	Mature	313, 379, 407, 363, 403, 352	Wilken of Melrose
Tooravale Lassie Fowler 3rd	28733	1.8.33	14½	6,228	5·28	329·01	350	Mature	251, 242, 356	Goldspeck of Tooravale
Tooravale Starleigh 8th ..	Vol. 21	2.8.33	12½	4,283	5·50	235·72	230	Jr. 2	.. ..	King's Vale Monica 14th's Son
Tooravale Starleigh 7th ..	C.R.	9.8.33	8½	5,369	6·04	324·29	250	Sr. 2	233 ..	Tooravale Goldspeck
Tooravale Lassie 9th ..	42253	17.8.33	16½	5,953	5·77	343·69	250	Sr. 2	294 ..	Kings Vale Monica 14th's Son
Tooravale Lassie 5th ..	28731	19.8.33	10½	5,507	5·48	301·97	330	Sr. 4	297, 370, 432	Welkin of Melrose
Tooravale Starleigh 3rd ..	25909	28.8.33	5½	5,321	6·14	326·66	350	Mature	261, 357, 328, 311	Welkin of Melrose
Tooravale Clover 2nd ..	28729	2.9.33	12½	7,720	5·25	405·56	350	Mature	337, 415, 467	Tooravale Goldspeck
Tooravale Lassie Fowler 8th	42254	6.9.33	16½	6,521	5·78	376·91	270	Jr. 3	286 ..	Tooravale Golden Mac
Tooravale Lassie 8th ..	42252	7.9.33	28	6,536	6·22	406·55	290	Sr. 3	352 ..	Tooravale Goldspeck
Tooravale Lassie 2nd ..	25904	21.9.33	28	8,964	5·80	520·06	350	Mature	310, 408, 450, 567	Welkin of Melrose
Handbury, J. E. and Sons, Toora (Share Farm) Jersey (4).										
Tooravale Milkmaid 3rd ..	25906	27.7.33	14½	5,264	6·34	333·89	350	Mature	237, 280 ..	Welkin of Melrose
Tooravale Maid's Princess ..	23188	7.8.33	8½	4,329	5·38	233·05	350	Mature	242, 320, 352, 202	Welkin of Melrose
*Tooravale Milkmaid 6th ..	34053	7.8.33	4	5,385	6·39	344·10	310	Jr. 4	279 ..	Tooravale Goldspeck
Tooravale Milkmaid 8th ..	42257	9.8.33	12½	4,411	6·26	276·19	270	Jr. 3	.. ..	Tooravale Goldspeck
Hardie, R. T., Leitchville, Illawarra Shorthorn (2).										
Horefield Gwen 2nd ..	Vol. A.I.S.H.B.	5.7.33	13	5,001	4·63	231·71	230	Jr. 2	.. ..	Colmar of Aralabrad
Horefield Minnie 3rd ..	Vol. A.I.S.H.B.	18.9.33	17½	5,438	3·57	193·97	230	Jr. 2	.. ..	Colmar of Aralabrad
Harvey, T., Boisdale, Jersey (5).										
Jerseyholm Daisy 16th ..	25395	11.7.33	19	8,903	5·15	458·72	350	Mature	485 ..	Werribee Master Fox
Jerseyholm Kirsty 24th ..	34064	13.7.33	21	7,980	5·78	460·96	290	Sr. 3	427 ..	Lord Island Fancy of Brucevale
Jerseyholm Empress 22nd	37506	14.7.33	16	6,671	5·16	344·41	250	Sr. 2	250 ..	Lord Island Fancy of Brucevale
Empress 6th of Jerseyholm..	18733	8.8.33	28	11,486	4·93	566·01	350	Mature	329, 445, 491, 618, 555	Handsome Boy 5th of Melrose
Jerseyholm Empress 20th ..	34062	15.9.33	14	6,546	5·52	361·16	290	Sr. 3	360 ..	Lord Island Fancy of Brucevale
Hastings, R. P., Gisborne, Jersey (1).										
Elderside Iris	24385	19.9.33	14	7,101	4·98	353·69	350	Mature	283 ..	Noble Airman of Banyule
Haywood, Dr. A. R., Hastings, Jersey (2).										
Gladys Park Goldmine ..	39784	5.9.33	14½	4,147	5·64	234·00	230	Jr. 2	.. ..	Werribee Bluebell's Masterpiece
Windrest Chevy	42529	19.9.33	12	3,876	6·47	250·79	230	Jr. 2	.. ..	Edmonton Rarius
Henderson, R. and Son, Macorna, Ayrshire (2).										
Ripon Lea Ladylike ..	24257	3.8.33	17	5,781	4·09	236·57	230	Jr. 2	.. ..	Cathcart Lloyd
Grand View Blossom ..	20279	20.8.33	17	9,144	4·30	393·21	350	Mature	340, 421, 416, 496	Dudly of Oakbank
Henderson, W., Grassmere, Ayrshire (Home Farm) (14).										
Carracoorte Maiden ..	24705	19.7.33	7½	5,259	4·10	215·37	230	Jr. 2	.. ..	Gerty's Producer of Carracoorte
Carracoorte Bonnie 5th ..	24679	24.7.33	9½	4,572	4·93	225·24	230	Jr. 2	.. ..	Carracoorte Maiden's Laddie
Carracoorte Palm 2nd ..	23552	17.8.33	11	7,181	4·37	313·90	350	Mature	312, 287 ..	Gerty's Producer of Carracoorte
Carracoorte Bunty 9th ..	17453	30.8.33	8	5,939	4·23	250·97	350	Mature	231, 277, 314 ..	Sebastian of Sparrovale
Carracoorte Bunty 13th ..	19688	30.8.33	20	7,323	4·19	306·85	330	Sr. 4	295, 212 ..	Blue Bell's Pride of Glencourt
Carracoorte Briar Bud ..	23546	3.9.33	13	6,924	4·77	330·27	310	Jr. 4	286, 383 ..	Carracoorte Lochiel
Carracoorte Bellona 11th ..	19680	4.9.33	23½	8,051	3·62	291·40	330	Sr. 4	227, 264, 379	Leader of Cathcart

* 240 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Henderson, W., Grassmere, Ayrshire—*continued.*										
Carracoorte Balm 11th ..	19679	5.9.33	13	7,604	4·77	362·91	350	Mature	90, 388 ..	Gerty's Producer of Carracoorte
Carracoorte Pearl 11th ..	23553	8.9.33	16	7,968	5·03	400·84	330	Sr. 4	307, 394 ..	Carracoorte Lochiel
Carracoorte Iris 18th ..	24696	19.9.33	12½	5,244	4·56	238·97	230	Jr. 2	.. ..	Carracoorte Maiden's Laddie
Carracoorte Iris 11th ..	19696	20.9.33	13½	8,486	3·97	337·09	330	Sr. 4	250, 324, 403	Bluebell's Pride of Glencourt
Carracoorte Iris 17th ..	24695	22.9.33	13½	5,348	4·57	244·58	230	Jr. 2	.. ..	Carracoorte Maiden's Laddie
Carracoorte Violet 8th ..	C.R.	22.9.33	12	4,971	4·30	213·69	250	Sr. 2	.. ..	Bluebell's Pride of Glencourt
Carracoorte Fairy ..	24687	25.9.33	19½	5,936	4·21	250·18	230	Jr. 2	.. ..	Bluebell's Pride of Glencourt
Henderson, W., Dennington (Share Farm), Ayrshire (4).										
*Carracoorte Iris 8th ..	17466	26.7.33	4	4,935	4·13	204·00	350	Mature	215, 216, 283	Sebastian of Sparrovale
†Carracoorte Lucy 12th ..	23551	28.7.33	4	3,435	4·73	162·39	310	Jr. 4	242, 246 ..	Gerty's Producer of Carracoorte
*Fennella 7th of Carracoorte	9355	29.7.33	4	5,355	3·84	205·62	350	Mature	232, 229, 188, 325, 402, 314, 348, 290, 315, 299	Lord Dudley of Gowrie Park
‡Iris 7th of Carracoorte ..	17465	7.8.33	4	3,510	3·93	137·91	350	Mature	202, 171, 239, 200, 208, 228	Gerty's Producer of Carracoorte
Hercus, T. B., Hayanmi, Jersey (5).										
Mologa Peerless	37559	29.6.33	N.O.C.	6,867	5·19	356·55	270	Jr. 3	318 ..	Mologa Admiral
Ballara Violet 4th ..	33838	19.7.33	N.O.C.	6,698	6·16	412·69	290	Sr. 3	395, 402 ..	Brucevale Lord Fancy Madeira
Mologa Beauty	25937	1.8.33	26½	10,200	4·28	437·01	350	Mature	426, 503 ..	Delight of Melrose
Mologa Violet	C.R.	8.8.33	17½	6,953	5·02	349·15	230	Jr. 2	.. ..	Eurobin Biplane
Mologa Wattle	37561	1.9.33	17	7,326	5·38	394·02	270	Jr. 3	321, 362 ..	Prince of Mologa
Holbing, L. W. C., Tongala, Jersey (8).										
Eildon Ladybird ..	37583	6.8.33	12½	5,886	6·40	376·42	290	Sr. 3	231 ..	Ballara His Majesty
Daisy 3rd of Rosemont ..	18853	13.8.33	13	6,481	6·07	393·64	350	Mature	376, 406, 397, 381	Rosella 2nd's Noble of Rosemont
Eildon Actress 5th ..	39572	24.8.33	11½	5,776	6·17	356·30	270	Jr. 3	286 ..	Ballara His Majesty
Eildon Lindel	39577	25.8.33	13½	5,650	5·45	308·04	230	Jr. 2	.. ..	Ballara His Majesty
Eildon Queenie	37584	1.9.33	17	7,729	5·58	431·65	290	Sr. 3	322 ..	Ballara His Majesty
Eildon Choice Queen ..	25944	3.9.33	17	10,092	4·85	489·53	350	Mature	350, 421, 392, 414	Last Choice of Belgonia
Eildon Satin Bird ..	39578	21.9.33	5½	4,393	5·61	246·48	230	Jr. 2	.. ..	Ballara His Majesty
Eildon Island Princess ..	39576	25.9.33	10	5,565	5·77	321·17	230	Jr. 2	.. ..	Brucevale Lord Island
Hore, A. J., Horefield, Illawarra, Shorthorn (3).										
Alne Bank Sally 4th ..	Vol. 4, A.I.S.H.B.	28.7.33	10	5,002	3·91	195·73	230	Jr. 2	.. ..	Alne Bank Magic
Tabbagong Cherry 6th ..	Vol. 4, A.I.S.H.B.	24.8.33	12	6,531	4·09	267·22	250	Sr. 2	.. ..	Tabbagong Hinkler
Alne Bank Jubilee 6th ..	Vol. 4, A.I.S.H.B.	11.9.33	12	6,257	3·84	240·10	250	Sr. 2	.. ..	Spearfelt of Alne Bank
Hore, L. G., Horefield, Illawarra, Shorthorn (7).										
Horefield Melba 2nd ..	Vol. 4, A.I.S.H.B.	9.7.33	6½	6,273	4·29	269·21	230	Jr. 2	.. ..	Colmar of Aralabrad
Alne Bank Della 2nd ..	1915	12.7.33	14	8,412	4·02	337·78	310	Jr. 4	304, 298 ..	Royal Light of Alne Bank
Horefield Coquette ..	Vol. 4 A.I.S.H.B.	18.7.33	9	5,598	4·20	235·35	250	Sr. 2	215 ..	Colmar of Aralabrad
Lemon Grove Pride 4th ..	1914	19.7.33	26½	7,663	3·96	303·21	290	Sr. 3	209 ..	Bruce of Greyleigh
Alne Bank Millie 6th ..	Vol. 4, A.I.S.H.B.	27.7.33	4	5,823	3·66	213·13	230	Jr. 2	.. ..	Lemon Grove Rufus
Alne Bank Fashion 10th ..	1068	10.9.33	N.O.C.	10,103	3·55	358·50	310	Jr. 4	308, 398 ..	Don of Greyleigh
Lemon Grove Baby 5th ..	1911	18.9.33	N.O.C.	8,039	4·37	350·99	270	Jr. 3	362 ..	Dan's Earl of Lemon Grove
Hore, M. T., Horefield, Friesian (3).										
Burnbank Majoe Triplex ..	3943	1.7.33	21½	9,395	3·24	304·29	230	Jr. 2	.. ..	Dominion Joe Sigis Matador Galatea
Eurobin Oakwood Eclipse ..	3438	24.8.33	50½	19,754	3·55	701·87	350	Mature	361, 395, 538	Burnbank Inka Sylvia Galatea
Bolero Sylvia Grietje ..	1471	3.9.33	54½	16,615	2·84	472·32	350	Mature	504 ..	Burnbank Inka Sylvia's Lad
Huffer, J. A., Gormandale, Jersey (21).										
Glen Valley Royal Rose 2nd	37612	28.6.33	12	4,856	5·63	273·44	270	Jr. 3	279 ..	Waverley's Count of Glen Valley
Glen Valley Waverley Lass 5th	34096	9.7.33	14½	6,095	5·81	354·19	290	Sr. 3	220, 395 ..	Cream Lad of Mayland
Glen Valley Handsome Girl	37608	20.7.33	15	5,255	6·03	319·58	290	Sr. 3	323 ..	Melrose Clementine 2nds Masterpiece
Glen Valley Sand Daisy 2nd	40005	26.7.33	11	5,317	5·03	270·14	230	Jr. 2	.. ..	Glen Valley Patrol
Glen Valley Rose Marie ..	28983	27.7.33	12½	6,675	5·45	363·51	330	Sr. 4	300, 358, 427	Glen Valley Fancy Roses Lad

* 210 days in test. † 180 days in test. ‡ 150 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Huffer, J. A., Gormandale, Jersey—*continued.*										
Glen Valley Verbena 2nds Fairy	34094	2.8.33	14	5,533	5·87	324·63	310	Jr. 4	375, 404 ..	Waverley's Count of Glen Valley
Glen Valley Silver Belle ..	25432	10.8.33	14	6,493	6·04	391·97	350	Mature	431, 444, 496	Waverley's Count of Glen Valley
Glen Valley Cream Rose ..	28760	12.8.33	17	7,271	5·48	398·53	330	Sr. 4	317, 397, 442	Cream Lad of Mayland
Glen Valley Handsome Girl 2nd	40001	17.8.33	12½	4,916	5·73	281·48	230	Jr. 2	.. ..	Glen Valley Butter Makers' Boy
Glen Valley Coral Sand 2nd	34090	18.8.33	16	6,852	5·50	376·92	290	Sr. 3	325, 389 ..	Waverley's Count of Glen Valley
Glen Valley Waverley Lass 4th	34095	28.8.33	14	6,796	5·76	391·55	310	Jr. 4	351 429 ..	Waverley's Count of Glen Valley
Melrose Mercedes ..	34098	30.8.33	13½	5,890	5·45	321·00	310	Jr. 4	327, 367 ..	Masterpiece (Imp.)
Glen Valley Handsome Girl 3rd	Vol. 21	6.9.33	9½	3,984	6·15	244·95	230	Jr. 2	.. ..	Melrose Ensign
Wompini Ma Mie Rosette ..	28985	9.9.33	13½	6,794	5·47	371·54	330	Sr. 4	319, 383, 449	Werribee Masterman
Glen Valley Quick Countess	25430	18.9.33	17	7,627	5·68	433·53	350	Mature	392, 503, 508	Waverley's Count of Glen Valley
Glen Valley Verbena 2nd ..	25433	18.9.33	8	5,428	5·64	306·03	350	Mature	325, 371, 456, 453	Cream Lad of Mayland
Glen Valley Myrtle ..	37610	19.9.33	11	6,106	5·58	340·56	230	Jr. 2	306 ..	Waverley's Count of Glen Valley
Glen Valley Waverley Lass 3rd	28761	19.9.33	13	5,749	6·20	356·35	330	Sr. 4	280, 301, 402	Cream Lad of Mayland
Glen Valley Sand Daisy ..	37613	19.9.33	10	4,330	4·61	199·45	250	Sr. 2	205 ..	Glenallan Mariposa
Glen Valley Silvershine ..	C.R.	20.9.33	10	4,948	5·70	281·87	230	Jr. 2	.. ..	Melrose Ensign
Silversand of Glen Valley ..	18756	21.9.33	13	6,584	5·29	348·16	350	Mature	359, 446, 472, 490, 429, 460, 383	Pansy's Eminent of Rosemont
Hurrey, W. H., Koonwarra, Jersey (15).										
Kooreena Mourier Queen 4th	40590	10.8.33	9½	4,526	6·89	311·77	230	Jr. 2	.. ..	Columbine's Defiance of Linga Longa
Blackwood Valley Little Queen	23221	18.8.33	13½	6,431	6·37	409·73	350	Mature	285, 297, 398, 429, 432, 468	Retford Mourier Lad
Kooreena Maranta ..	25951	24.8.33	14½	6,329	5·82	368·64	350	Mature	322, 415, 440, 433	Kooreena Carrie 3rds Idol
Kooreena Lulu	23222	26.8.33	12½	6,975	5·03	350·74	350	Mature	286, 367, 396, 401, 441, 379	Makarini of Roelands
Kooreena Carrie 2nd ..	34100	1.9.33	15	6,392	6·12	391·34	290	Sr. 3	365, 405 ..	Kooreena Carrie 3rds Delegate
Kooreena Audrey 2nd ..	28773	4.9.33	9	5,651	5·44	307·41	330	Sr. 4	303, 368, 359	Kooreena Carrie 3rds Delegate
Kooreena Mourier Queen ..	25953	6.9.33	13	6,191	6·04	373·53	350	Mature	311, 413, 405, 412	Kooreena Carrie 3rds Idol
Kooreena Handsome Jessie	40579	8.9.33	12	4,136	6·41	264·96	230	Jr. 2	.. ..	Columbine Defiance of Linga Longa
Kooreena Lulu 2nd ..	25950	9.9.33	12	6,111	6·19	378·49	350	Mature	293, 390 ..	Columbine's Defiance of Linga Longa
Kooreena Lulu 3rd ..	28774	10.9.33	11½	5,852	5·85	342·23	330	Sr. 4	281, 401, 425	Kooreena Carrie 3rds Delegate
Kooreena Mourier Queen 2nd	34105	10.9.33	15½	6,005	6·02	361·25	310	Jr. 4	338, 398 ..	Columbine's Defiance of Linga Longa
Kooreena Lady 2nd ..	40580	14.9.33	15½	6,960	5·67	394·71	270	Jr. 3	365 ..	Kooreena Carrie 3rds Delegate
Kooreena Mourier Queen 6th	40592	15.9.33	10½	4,413	6·25	275·71	230	Jr. 2	.. ....	Columbine's Defiance of Linga Longa
Whare Koa Lotina 2nd ..	23224	23·9·33	10	6,194	6·09	377·34	350	Mature	255, 400, 389, 421, 482, 407	Retford Mourier Lad
Kooreena Maranta 7th ..	40585	26.9.33	11	5,361	5·84	313·09	230	Jr. 2	.. ..	Columbine's Defiance of Linga Longa
Hutchinson, J., and Sons, Somerville, Jersey (5).										
Somerville Babs 4th ..	34107	21.7.33	25½	8,855	6·41	567·28	290	Sr. 3	376 ..	Banyule Aeronaut
Somerville Daphne 4th ..	34110	24.8.33	16	6,120	5·25	321·49	290	Sr. 3	259 ..	Somerville Reputation
Somerville Rio Rita ..	28782	25.8.33	31½	9,811	5·21	511·28	350	Mature	376, 478 ..	Banyule Aeronaut
Somerville Babs 3rd ..	25954	18·9·33	27	8,976	5·36	481·17	350	Mature	304, 414, 527	Rosella's Lad of Somerville
Somerville Cour-de-Rose 2nd	Vol. 21	20·9·33	20½	5,477	6·32	346·02	230	Jr. 2	.. ..	Somerville Master Babs
Itzerott Bros., Heathcote, Jersey (2).										
Five Gums Primula's Venture	39748	6.8.33	15½	5,855	5·71	334·57	230	Jr. 2	.. ..	Staghorn Clementine's Masterpiece 2nd
Five Gums Fairy Fern ..	37630	5.9.33	5	5,367	6·01	322·51	290	Sr. 3	332 ..	Staghorn Clementine's Masterpiece 2nd
King, H. W., Warragul, Jersey (7).										
Karoola Beauty	28996	23.7.33	11½	6,914	5·60	387·40	330	Sr. 4	323, 379, 400	Glenvalley Fancy Rose's Lad
Karoola Marie	25442	29.7.33	11½	7,033	5·10	358·48	350	Mature	319, 413, 403, 450	Waverley's Count of Glenvalley
Karoola Honey Bee 5th ..	40500	19.8.33	16	5,852	5·15	301·66	250	Sr. 2	253 ..	Glenallan Mariposa
Karoola Dianthus ..	37697	26.8.33	14	4,194	5·12	265·71	230	Jr. 2	.. ..	Glenallan Mariposa
Karoola Yvonne	40501	30.8.33	7	3,054	5·11	156·09	230	Jr. 2	.. ..	Glenallan Mariposa
Karoola Doris	37698	6.9.33	11	4,660	5·35	249·11	230	Jr. 2	..	Glenallan Mariposa
Karoola Merle ..	37700	14.9.33	15½	5,275	4·25	223·98	230	Jr. 2	..	Glenallan Maripos

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Knowles, T., Dandenong, Ayrshire (12).										
Gleneira Hebe	20132	16.7.33	5	7,340	4·29	314·65	350	Mature	205, 215, 339	Algie of Oakbank
Dandy Shamrock ..	26009	17.7.33	17	9,623	4·73	455·18	290	Sr. 3	327 ..	Beleura Sarchedon
Dandy Pet	26003	31.7.33	23	7,056	4·29	302·47	250	Sr. 2	.. ..	Beleura Pensive
Dandy Duchess	24780	20.8.33	14	8,885	4·19	372·14	270	Jr. 3	354 ..	Beleura Flashdale
Dandy Princess Betty ..	17733	20·8·33	4	10,598	3·83	406·29	350	Mature	264, 364, 359, 461	Glencourt Prince
Dandy Snowdrop ..	23616	20.8.33	15	9,872	4·67	461·12	310	Jr. 4	337, 396 ..	Beleura Sarchedon
Dandy Gladys	C.R.	23.8.33	21	7,256	3·84	278·69	230	Jr. 2	.. ..	Beleura Flashdale
Fernhill Rosina	16032	25.8.33	18	10,674	4·43	472·35	350	Mature	248, 411, 472, 401, 509	Merryboy of Glenlocksley
Dandy Mab	23610	31.8.33	21	10,037	4·59	460·87	310	Jr. 4	400, 485 ..	Glencourt Prince
Dandy Peat	24784	5.9.33	12½	8,104	3·52	284·96	270	Jr. 3	303 ..	Dandy Surprise
Dandy Queen Mab ..	26005	10·9·33	16½	9,057	4·12	373·04	230	Jr. 2	.. ..	Beleura Flashdale
Dandy Beltana	25995	20.9.33	20½	7,469	4·26	318·13	230	Jr. 2	.. ..	Dandy Masterpiece
Lade, A., Alexandra, Jersey (5).										
Hythe Violet	40278	19.8.33	11	5,186	5·52	286·36	250	Sr. 2	272 ..	Alert of Farringdon
Glen Vale Holly	24448	12.9.33	9½	6,581	6·56	431·94	350	Mature	288, 403, 450	King of St. Albans
Lady Grey 40th of St. Albans	23247	15.9.33	11	8,123	4·64	376·61	350	Mature	333, 366, 416, 429	Twylish's Expectation of Banyule
Hythe Fairy	33444	18.9.33	6½	4,071	5·84	237·63	350	Mature	186, 277, 249	Snow's Boy of Farringdon
Hythe Luck	37714	24.9.33	5½	3,317	6·00	198·96	270	Jr. 3	223 ..	Alert of Farringdon
Lennie, Mrs. E. M., Tongala, Jersey (13).										
The Valley Dollar's Stumpy	28823	22.7.33	20½	7,971	4·29	342·15	330	Sr. 4	252, 366 ..	Dollar of The Valley
The Valley Blackthorn's Jessie	34160	24.7.33	18	6,558	5·00	328·22	310	Jr. 4	340, 308 ..	Black Thorn of Fairview
The Valley Melba ..	34165	25.7.33	16½	5,943	4·89	290·37	250	Sr. 2	313 ..	Dollar of the Valley
The Valley Show Girl ..	28826	17.8.33	18	7,187	4·49	322·51	330	Sr. 4	348, 306 ..	Black Thorn of Fairview
The Valley Stumpy 5th ..	37739	17.8.33	11½	3,320	4·79	159·03	230	Jr. 2	.. ..	Black Thorn of Fairview
The Valley Stumpy 6th ..	37740	18.8.33	12	3,596	5·35	192·52	230	Jr. 2	.. ..	Black Thorn of Fairview
*The Valley Merella 4th ..	42196	20.8.33	4	1,560	6·33	98·67	230	Jr. 2	.. ..	Black Thorn of Fairview
The Valley Wild Rose ..	23260	24.8.33	20	9,833	5·25	516·27	350	Mature	374, 450, 380, 509, 512, 522	Foxglove of The Valley
The Valley La France ..	37735	1·9·33	15	5,948	5·42	322·60	230	Jr. 2	.. ..	The Valley All Twylish
Myra 3rd of The Valley ..	18494	2.9.33	13½	6,519	4·61	300·37	350	Mature	328, 366, 386, 431, 306, 437, 374	Sweet Fox of The Valley
†The Valley Madamoselle ..	34163	12.9.33	4	3,135	4·16	130·47	310	Jr. 4	264, 312 ..	Black Thorn of Fairview
The Valley Black Rose ..	26017	16·9·33	22	9.503	5·06	481·18	350	Mature	290, 458, 438, 524	Black Thorn of Fairview
The Valley Blossom ..	37733	19·9·33	15	4,976	5·12	254·75	230	Jr. 2	.. ..	The Valley All Twylish
Le Noury, E., Werribee, Guernsey (1).										
Werribee Ramblers Delight	3931	1.7.33	12	6,210	5·09	315·80	270	Jr. 3	.. ..	Valentine Salone of Maple Lodge
Leslie, T., Sale, Jersey (1).										
Dunrossness Beatrice ..	39548	8.8.33	24	8,847	6·02	532·92	270	Jr. 3	414 ..	Banyule Velometor
Lindsay, G., Pakenham, Jersey (2).										
Alister Carmen 2nd ..	37745	28.8.33	12½	5,153	5·32	273·95	290	Sr. 3	.. ..	Koo-man-gor-nong Little Mannikin
Lady of Unanderra ..	21414	24.9.33	8	6,445	4·84	311·71	350	Mature	.. ..	Chief of Meridale
Longerenong Agricultural College, Dooen, Ayrshire (8).										
‡Longerenong Polygonum ..	26564	6.8.33	4	3,690	4·66	171·90	250	Sr. 2	168 ..	Lily's Lad of Holly Green
Longerenong Feather ..	26554	11.8.33	4	4,377	4·29	187·94	230	Jr. 2	.. ..	Longerenong Baron
Merle of Longerenong ..	12335	19.8.33	8½	7,011	4·17	292·62	350	Mature	283, 314, 269, 322, 280, 368, 255, 284	Aristocrat of Woongarra
Longerenong Queen Wattle	26565	21.8.33	11½	5,303	4·05	214·66	230	Jr. 2	.. ..	Longerenong Baron
Longerenong Virginia 2nd ..	26569	25.8.33	9	5,712	4·25	242·59	230	Jr. 2	.. ..	Longerenong Baron
Longerenong Wistaria 2nd..	26570	28.8.33	8	4,644	4·18	193·95	230	Jr. 2	.. ..	Longerenong Baron
Longerenong Cedar Wattle	26550	2.9.33	4½	5,670	5·42	307·12	270	Jr. 3	270 ..	Longerenong Baron
Longerenong Laureate ..	26557	26.9.33	10½	7,092	4·24	300·35	270	Jr. 3	347 ..	Lily's Lad of Holly Green
Lyon, C. G., Heidelberg, Jersey (8).										
Banyule Silvermine 64th ..	28845	9.7.33	14	7,653	6·08	465·28	290	Sr. 3	476 ..	Air Lord of Banyule
Banyule Molly 28th ..	24461	18.7.33	18	7,569	5·70	431·08	350	Mature	321, 450, 548	Noble Airman of Banyule
Banyule Silvermine 48th ..	24468	23.7.33	18½	7,604	4·81	366·07	350	Mature	285, 389, 446	Air Lord of Banyule
Tiddlewinks 2nd of Banyule	18822	10.8.33	19½	7,854	5·25	411·97	350	Mature	342, 425, 462, 520	Sapper of Banyule
Banyule Silvermine 53rd ..	25471	14.8.33	20½	9,340	4·98	465·27	350	Mature	387, 445 ..	Air Lord of Banyule
Gowanlea Oxford's Gipsy ..	37788	24.8.33	20	7,265	5·32	386·54	270	Jr. 3	324 ..	Oxford Beau's Pretty Oxford
Banyule Silvermine 75th ..	37779	10.9.33	19	5,709	5·25	300·00	250	Sr. 2	.. ..	Superstrain of Banyule
Ettie 9th of Banyule ..	18804	20.9.33	16	6,395	5·28	337·45	350	Mature	258, 455, 416, 430	Matador of Banyule

* 150 days in test. † 180 days in test. ‡ 210 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Lyon, W. H., Sale, Jersey (6).										
Avon Lassie Fowler 3rd ..	Vol. 21	15.8.33	13	6,912	5·54	383·19	350	Mature	.. ..	Melrose Jessie 13ths Count
Avon Rose 2nd	37792	19.8.33	22	7,063	5·23	369·56	350	Mature	.. ..	Melrose Jessie 13ths Count
Avon Blanchette 4th ..	Vol. 21	22.8.33	12	6,023	5·49	330·47	350	Mature	.. ..	Melrose Jessie 13ths Count
Avon Lassie Fowler 8th ..	Vol. 21	29.8.33	15	5,372	5·31	284·97	250	Sr. 2	.. ..	Melrose Jessie 13ths Count
Avon Rose 4th	C.R.	30.8.33	17	5,301	5·17	300·02	230	Jr. 2	.. ..	Melrose Jessie 13ths Count
Little Nell of Avon ..	21441	14.9.33	15	6,140	5·47	336·12	350	Mature	.. ..	Melrose Jessie 13ths Count
Macauley, C. W. Rochester, Jersey (3).										
*Taranah Charm	34227	22.7.33	4	4,395	5·30	243·94	230	Sr. 3	220, 333 ..	Duke of Invermay
Taranah Floss	37357	23.7.33	22	7,707	5·90	454·75	230	Sr 3	313, 399 ..	Duke of Invermay
Taranah Dewdrop ..	42115	23.8.33	12	4,542	5·51	250·35	230	Jr. 2	.. ..	Duke of Invermay
McDougall, J., Byaduk, Jersey (7).										
Park View Miriam ..	41516	12.7.33	13	5,938	5·01	297·21	270	Jr. 3	.. ..	Prince of Park View
Dawn of Park View ..	21452	23.7.33	17	6,504	3·97	258·53	350	Mature	289, 348, 434, 562	Cream Lad of Fairview
Park View Nellie ..	41518	24.7.33	16½	5,795	5·94	344·15	230	Jr. 2	.. ..	Grangelea Royal
Park View Nola	24480	8.8.33	9½	6,680	5·27	351·73	350	Mature	311, 371, 375, 408	Cream Lad of Fairview
Park View Fairy	24478	20.8.33	4	6,513	4·50	293·34	350	Mature	284, 272, 324, 442	Cream Lad of Fairview
Park View Lady May ..	41514	28.8.33	15	5,057	5·54	280·37	230	Jr. 2	.. ..	Grangelea Royal
Park View Heather ..	26055	19.9.33	7	5,349	5·20	282·72	350	Mature	319, 347, 373	Don of Park View
McErvale, I. and Sons, Camperdown, Jersey (9).										
Troed-yr-Rhi-Goleu Dydd 2nd	C.R.	1.7.33	8	5,495	5·19	285·44	230	Jr. 2	.. ..	Montrose Duke of Glen Iris
Cumnock Betty	25484	3.7.33	11	6,134	5·00	306·75	350	Mature	307, 325, 344	Vanilla's Noble of Tavistock
Airlie Isla 3rd	38652	4.7.33	7	6,962	5·07	352·91	290	Sr. 3	359 ..	Hedge of Banyule
Cumnock Amelias Lady ..	C.R.	10.7.33	15	5,792	4·42	255·89	250	Sr. 2	345 ..	Cumnock Fancy Masterpiece
Kyora Bettws-y-Coed ..	26085	2.8.33	12	7,925	5·71	452·63	350	Mature	342, 327, 401	Miama's Volunteer of Woodside
Airlie Buttercup 7th ..	37292	16.8.33	10	5,612	5·44	305·55	250	Sr. 2	296 ..	Hedge of Banyule
Hazeldale Pearly Maid ..	29123	26.8.33	10	5,033	5·59	281·29	350	Mature	344, 336, 318	Lord Mannikin of Hazeldale
Greenwood Astra ..	25518	27.8.33	11	6,662	5·04	335·82	350	Mature	413, 367, 460	Retford Peer
Queen of Colac	9310	2.9.33	16	6,218	4·77	296·40	350	Mature	133, 211 ..	Twylish Queen's Fox
McInnes, A. A., Gunbower, Dairy Shorthorn (4).										
Lock Ness Pearl Beauty 3rd	D.S. H.B.A.	15.8.33	14½	5,720	4·36	249·55	270	Jr. 3	239 ..	Braylands Matilda's Duke
Lock Ness Pearl Beauty 5th	D.S. H.B.A.	22.8.33	8½	3,358	4·02	135·02	230	Jr. 2	.. ..	Braelands Matilda Duke
*Braelands Pearl Beauty 18th	D.S. H.B.A.	10.9.33	4	8,085	3·60	291·06	350	Mature	163, 270, 337	125th Earl of Pentland
*Braelands Roseleaf 6th ..	D.S. H.B.A.	20.9.33	4	8,040	3·63	295·59	350	Mature	241, 295, 297	132nd Earl of Pentland
McNabb and Son, Irrewillipe East, Jersey (27).										
Maxon Chief's Favourite ..	40929	28.6.33	12	4,116	5·12	210·90	230	Jr. 2	.. ..	Maxon Marie's Chief
Maxon Counts Daisy ..	37850	1.7.33	12	4,611	5·89	271·56	250	Sr. 2	.. ..	Maxon Count Graceful
Maxon Nobles Lodie ..	37854	1.7.33	15	4,898	4·50	220·56	230	Jr. 2	.. ..	Avalon Noble 8th
Boorene Silver Light ..	25542	2.7.33	22	7,667	6·13	469·65	350	Mature	377, 478, 493	Lady Grey's Silvermine 2nd of Somerset
Springhurst Easter Daisy 2nd	25543	8.8.33	13	5,904	6·42	378·85	350	Mature	245, 316, 362, 359	Starlight of Springhurst
Maxon Mercedes Buttercup	29077	8.8.33	23	9,473	5·21	493·29	330	Sr. 4	389, 445, 589	Avalon Mercedes Chief 7th
Maxon Nobles Clara ..	34222	9.8.33	14	5,121	5·97	305·63	270	Jr. 3	260 ..	Avalon Noble 8th
Maxon Chief's Estella ..	40928	10.8.33	18½	4,622	5·20	240·19	230	Jr. 2	.. ..	Maxon Maries Chief
Boorene Miss Linacre 2nd ..	24245	12.8.33	23	9,400	4·55	427·26	350	Mature	425, 476, 492, 507, 442, 542	Arcadia's V.C. of Wooringa
Staghorn Lotus	21125	14.8.33	21½	7,223	4·77	344·76	350	Mature	228, 340, 378, 416	Lily's King of Staghorn
Maxon Chief's Lady ..	40930	16.8.33	15	5,066	4·90	248·35	230	Jr. 2	.. ..	Maxon Marie's Chief
Maxon Easter Daisy ..	29074	17.8.33	17	8,438	4·39	370·27	330	Sr. 4	305, 278, 389	Avalon Noble 8th
Maxon Chief's Daisy ..	40927	22.8.33	23½	5,319	4·72	251·06	230	Jr. 2	.. ..	Maxon Mercedes Chief
Boorene Silver Lady ..	25249	1.9.33	24½	8,075	5·01	404·35	350	Mature	288, 329, 390, 416	Lady Grey's Silvermine 2nd of Somerset
Staghorn Morocco's Primrose	25544	4.9.33	17	8,574	4·66	399·78	350	Mature	289, 341, 274, 507	Madeira's King of Staghorn
Lodestone of Springhurst ..	21608	5.9.33	15	6,850	5·46	374·33	350	Mature	357, 418, 488, 379, 456, 468	Alloy of Banyule
Mercedes Bell 3rd of Avalon	18313	6.9.33	15½	6,533	4·87	318·45	350	Mature	219, 164, 354, 405, 370,	Mercedes Chief of Glen Iris
Maxon Bright Vanilla ..	37849	8.9.33	21	6,579	5·22	343·75	270	Jr. 3	356 ..	Maxon Starbright Prince 4th
Maxon Noble's Alsyke ..	34221	8.9.33	17½	7,656	5·38	412·19	270	Jr. 3	268, 421 ..	Avalon Noble 8th

* 240 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
McNabb and Son, Irrewillipe East, Jersey—*continued.*										
Alsyke 3rd of Springhurst ..	16960	10.9.33	22	7,710	4·82	371·94	350	Mature	254, 318, 249, 276, 374, 368	Alloy of Banyule
Maxon Easter Daisy 2nd ..	34217	11.9.33	18½	6,797	4·99	339·43	290	Sr. 3	273, 330 ..	Avalon Noble 8th
Maxon Shasta Daisy ..	40938	19.9.33	17	4,946	4·27	211·29	230	Jr. 2	.. ..	Avalon Noble 8th
Maxon Counts Vanilla ..	40934	20.9.33	15	4,538	5·93	269·26	230	Jr. 2	.. ..	Maxon Count Graceful
Sweet Estella's Pansy of Boorene	11231	21.9.33	19	6,905	4·31	297·43	350	Mature	341, 358, 373	Sweet Pansy 2nds Son of Melrose
Maxon Bright Alsyke ..	37846	22.9.33	21	5,844	5·25	307·06	230	Jr. 2	262 ..	Maxon Starbright's Prince 4th
Ranunculus 2nd of Springhurst	13937	24.9.33	23½	6,760	4·77	322·59	350	Mature	311, 368, 348, 443, 405, 417	Othman of Springhurst
Maxon Graceful Duchess ..	40935	25.9.33	14½	4,337	5·46	237·00	230	Jr. 2	.. ..	Maxon Count Graceful
Maher, R. H., Tongala, Jersey (2).										
Rosemont Lassie Fowler 6th	37878	20.8.33	8½	4,757	6·37	302·89	270	Jr. 3	271 ..	Rosella 2nds Noble of Rosemont
Rosemont Lady Fowler 6th	41834	23.8.33	12	4,715	5·50	259·43	270	Jr. 3	305 ..	Rosella 2nds Noble of Rosemont
Maller, R. (Dr.), Shepparton, Jersey (17).										
Maneroo Velda	Vol. 21	4.7.33	18	5,877	5·77	339·08	230	Jr. 2	.. ..	Maneroo Daphne's Twylish Lad
Maneroo Sunshine ..	Vol 21	23.7.33	22	7,506	4·63	349·52	230	Jr. 2	.. ..	Wompini Royal Duke
Maneroo Gem's Lady ..	37887	24.8.33	16½	7,794	6·15	479·44	310	Jr. 4	362, 519 ..	Wompini Royal Duke
Maneroo Dawn	37884	25.8.33	19½	8,979	5·39	484·14	290	Sr. 3	380, 572 ..	Maneroo Daphne's Twylish Lad
Maneroo Kitten	40879	26.8.33	18	8,219	5·86	481·71	250	Sr. 2	430 ..	Wompini Royal Duke
Maneroo Amber's Queen ..	37881	3.9.33	18	10,736	4·89	524·82	310	Jr. 4	379, 504 ..	Wompini Royal Duke
Maneroo Gipsy Queen ..	37888	4.9.33	21	9,492	4·39	416·86	290	Sr. 3	308, 422 ..	Mendip Rye
Maneroo Pearl's Dewdrop	37891	4.9.33	16	8,198	5·26	431·04	290	Sr. 3	409, 425 ..	Maneroo Duke
Coolwoola Montrose Pearl's Girl	26007	15.9.33	25½	11,562	4·83	558·88	350	Mature	276, 321, 391, 607	Montrose Dancer of Glen Iris
Maneroo Princess ..	37893	15.9.33	13½	7,776	5·13	398·95	290	Sr. 3	310, 440 ..	Wompini Royal Duke
Maneroo Jade	40878	22.9.33	18	7,509	5·86	440·24	250	Sr. 2	339 ..	Wompini Royal Duke
Maneroo Sunlight ..	40881	23.9.33	18½	6,461	6·20	400·55	230	Jr. 2	.. ..	Maneroo Daphne's Twylish Lad
Maneroo Marchfly's Lass ..	37890	24.9.33	27½	8,187	5·75	470·83	310	Jr. 4	372, 526 ..	Uramus of Aveley
Maneroo Kitty's Lass 2nd ..	34231	24.9.33	19	11,543	4·99	575·87	330	Sr. 4	366, 590 ..	Uramus of Aveley
Maneroo Daisy's Buttercup 2nd	37883	25.9.33	15	8,418	5·05	424·84	290	Sr. 3	245, 483 ..	Wompini Royal Duke
Maneroo Faith	40876	25.9.33	21	8,831	4·96	437·96	250	Sr. 2	423 ..	Wompini Royal Duke
Maneroo Royal Flower ..	37894	25.9.33	15	8,925	5·36	478·30	310	Jr. 4	380, 505 ..	Wompini Royal Duke
Maloney, P. J., Tongala, Jersey (10).										
Suspense (Imp.)	35383 P.S.H.C.	2.7.33	25½	9,825	5·95	584·18	350	Mature	452, 609 ..	Boutillier's Brumpton Lad
Belgonia Marie 4th ..	24491	6·7·33	28½	11,786	5·08	598·26	350	Mature	357, 512, 470, 571, 543	Aerial of Banyule
Belgonia Eileen	38827	17.7.33	20½	5,924	6·58	389·66	230	Jr. 2	.. ..	Werribee Plant
Belgonia Designs Noella ..	42697	17.7.33	20½	6,485	5·71	370·44	230	Jr. 2	.. ..	Designs Ruler (Imp.)
Leven Brae Perree's Girl ..	34002	18.7.33	30½	10,098	5·67	572·95	290	Sr. 3	412, 515, ..	Werribee Gay Piece
Belgonia Suspense ..	42698	23.7.33	20½	6,455	6·43	415·13	230	Jr. 2	.. ..	It of Oaklands (6561, P.S.H.C., J.H.B.)
Belgonia Peggy 9th ..	37898	31.7.33	20½	8,588	4·85	416·94	270	Jr. 3	354 ..	Aveley Rex
Eileen 2nd of Clarendon Eyre	13521	31.7.33	29	10,484	5·18	543·50	350	Mature	468, 404, 467, 533, 545, 564	Lotina Larkspur's Twylish
Belgonia Peggy 10th ..	38831	19.8.33	24	7,949	5·98	475·14	230	Jr. 2	.. ..	Aveley Rex
Belgonia Peggy 6th ..	29117	16.9.33	31½	11,360	5·43	616·66	350	Mature	469, 574, 643	Aerial of Banyule
Marshall, M., Myrtlebank, Jersey (1).										
Elthamleigh Twinkle Lass 2nd	22927	23.9.33	12	7,233	4·99	363·47	350	Mature	241, 391, 422	Dr. Jim of Koorawatha
Marshman, A. R., Archie's Creek, Jersey (2).										
Forgan Dainty 2nd ..	25556	1.7.33	8½	6,350	4·77	302·75	350	Mature	282, 332, 217, 376	Fisher of Melrose
Forgan Gaiety	39752	29.7.33	7½	6,273	4·51	282·67	310	Jr. 4	238, 260 ..	Banyule Loom
Masters, S. H., Murraydale, Jersey (5).										
Rutland Bright Stockings ..	41918	1.7.33	14	6,753	5·28	356·39	250	Sr. 2	275 ..	St. Albans Fuchsia's Choice
Rutland Brunette ..	29130	12.7.33	13	8,119	4·83	392·54	350	Mature	313, 323, 422	St. Albans Fuchsia's Choice
Rutland Bruntte 3rd ..	41919	1.8.33	25	9,164	4·89	447·69	270	Jr. 3	374 ..	St. Albans Fuchsia's Choice
Lea Hurst Stocking 3rd ..	23428	17.8.33	16	6,651	5·65	375·87	350	Mature	319, 373, 439, 397, 396, 398	Consul of Lea Hurst
King's Vale Brunette 21st ..	23313	24.8.33	24	9,287	4·60	426·93	350	Mature	318, 467, 536, 516, 479, 483	Linda 55th's V.C. of King's Vale

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Meaklim Bros., Mooroopna, Dairy Shorthorn (3).										
Drumniel Queenie ..	D.S.H.B.A.	3.9.33	25½	10,034	4·24	425·01	350	Mature ..	..	Rosemont of Willow Park
Drumniel Fanny ..	D.S.H.B.A.	15.9.33	25	10,434	4·15	432·99	350	Mature ..	..	Bounty of Darbalara
Drumniel Duchess 4th ..	D.S.H.B.A.	20.9.33	21½	6,872	3·67	251·91	230	Jr. 2 ..	..	Willow Park Reformer
Meier, A., Kilmore, Jersey (6).										
Carmen of Fairview ..	21504	12.8.33	10	6,015	5·27	316·91	350	Mature ..	..	Hawthorn Audrey's Twylish of Banyule
Fairview Boronia ..	29139	5.9.33	15½	6,548	5·39	352·97	350	Mature ..	..	Burnside Royalist
Fairview Gipsy 5th ..	37918	5.9.33	10½	6,620	5·61	371·24	250	Sr. 2 ..	..	Burnside Royalist
Fairview Gipsy 4th ..	37917	7.9.33	12½	5,763	5·36	308·66	250	Sr. 2 ..	..	Burnside Royalist
Fairview Gipsy 7th ..	39726	8.9.33	9	4,004	5·47	218·84	230	Jr. 2 ..	..	Fairview Cream Chief
Fairview Sweet May ..	34254	13.9.33	12	8,025	5·22	418·73	310	Jr. 4 ..	..	Burnside Royalist
Mesley, T., Estate of the late, Dalyston, Jersey (3).										
Warenda Garenne 14th ..	Vol. 21	15.7.33	15½	4,349	5·26	228·56	230	Jr. 2 ..	..	Belgonia Air King
Warenda La Charm 5th ..	34260	23.7.33	21½	7,655	5·88	450·49	330	Sr. 4	417 ..	Warenda Snap
Warenda Agnes 6th ..	Vol. 21	8.9.33	15½	6,615	5·21	344·56	230	Jr. 2 ..	..	Belgonia Air King
Middleton, E. M., Hamilton, Jersey (2).										
Dalray Marcia	33446	25.8.33	20	6,773	5·55	375·69	290	Sr. 3	286, 388 ..	Staghorn Lotus Cream's Masterpiece
Dalray Smileaway 2nd ..	Vol. 21	10.9.33	14½	5,297	5·35	283·32	230	Jr. 2 ..	..	Twylish Prince
Miller, F. W., Sebastopol, Jersey (2).										
Merunda Jean	Vol. 21	30.6.33	N.O.C.	4,392	5·27	231·60	230	Jr. 2 ..	..	Snap of Warenda
Orphanage Attractive 4th ..	Vol. 21	5.8.33	N.O.C.	4,004	6·10	244·16	230	Jr. 2 ..	..	Orphanage Vanguard
Mitchell, R. H., Linton, Jersey (4).										
Clifford Farm Heather ..	26103	30.7.33	24	8,754	5·80	508·02	350	Mature	568 ..	Magnet's Prince of Tavistock
Clifford Farm Mauvi's Winsome Lass	24517	9.8.33	21	7,440	5·94	441·68	350	Mature	480 ..	Golden Prince of Pendennis
Clifford Farm Marie ..	37948	10.9.33	26½	9,186	6·31	579·49	250	Sr. 2	488 ..	Clifford Farm Don
Clifford Farm Lady Sarah ..	34264	17.9.33	20½	8,550	6·18	528·50	290	Sr. 3	483 ..	Clifford Farm Eliminator
Moore, J. and Co., Yarram, Jersey (21).										
*Tooloonook Heather ..	42246	16.7.33	4	5,835	5·07	295·95	330	Sr. 4	279, 343 ..	Heroic of Somerville
Tooloonook Peach ..	33545	16.7.33	20½	7,757	4·95	384·29	350	Mature	282, 358, 338	Tooloonook Carol's Hero
Tooloonook Velveteen 2nd	33550	16.7.33	12	6,374	4·07	259·13	330	Sr. 4	253, 357, 256	Beauty 4th's Command of Somerville
Tooloonook Heather 2nd ..	C.R.	17.7.33	9	4,961	4·60	228·23	290	Sr. 3	.. ..	Heroic of Somerville
Tooloonook Cheeky 4th ..	Vol. 21	3.8.33	16	5,265	4·38	230·86	230	Jr. 2	.. ..	Heroic of Somerville
*Tooloonook Angler's Belle 2nd	Vol. 21	10.8.33	15½	6,690	4·69	314·06	270	Jr. 3	310 ..	Beauty 4th's Command of Somerville
Tooloonook Molly 2nd ..	Vol. 21	10.8.33	19½	7,308	4·70	343·16	290	Sr. 3	244 ..	Heroic of Somerville
Tooloonook Peach 4th ..	Vol. 21	10.8.33	17½	4,826	4·89	236·06	230	Jr. 2	.. ..	Heroic of Somerville
Tooloonook Lilac Bloom 3rd	Vol. 21	13.8.33	12½	5,027	4·86	244·33	230	Jr. 2	.. ..	Heroic of Somerville
Tooloonook Cheeky ..	21532	16.8.33	6½	5,300	4·46	236·12	350	Mature	351, 278, 290, 259	Lydia's King of Yaralla
Tooloonook Plumbago 4th	42249	16.8.33	16½	6,058	5·13	310·64	250	Sr. 2	263 ..	Beauty 4th's Command of Somerville
Tooloonook Beauty 4th ..	33540	17.8.33	10	5,783	5·31	307·31	350	Mature	148, 249, 281	Heroic of Somerville
*Tooloonook Trixie 6th ..	33549	23.8.33	4	3,405	5·12	174·24	330	Sr. 4	208, 404, 281	Heroic of Somerville
*Tooloonook Angler's Belle	33539	10.9.33	4	6,675	5·05	337·02	350	Mature	440, 398, 339	Heroic of Somerville
*Tooloonook Lilac Bloom ..	33542	14.9.33	4	4,380	6·06	265·35	350	Mature	263, 342, 355	Heroic of Somerville
Tooloonook Trixie 13th ..	Vol. 21	14.9.33	13	5,046	5·16	260·15	230	Jr. 2	.. ..	Tooloonook Plumbago Hero 2nd
Tooloonook Lotus 3rd ..	Vol. 21	18.9.33	6½	4,799	4.32	207.11	230	Jr. 2	.. ..	Heroic of Somerville
Burnside Molly	25563	20.9.33	14½	8,683	4.42	383.73	350	Mature	438, 431, 271, 303	Retford Lord Twylish
Burnside Vasilika ..	16946	20.9.33	N.O.C.	5,918	5·23	309·74	350	Mature	356, 160, 301, 289	Retford Lord Twylish
Burnside Lilac Bloom 3rd ..	33542	22.9.33	N.O.C.	6,719	5·37	360·83	350	Mature	283, 207, 332, 150	Retford Lord Twylish
Tooloonook Verbena 2nd ..	37960	22.9.33	N.O.C.	5,111	4·99	255·11	330	Sr. 4	257, 299 ..	Heroic of Somerville
Muhlebach Bros., Batesford, Ayrshire (6).										
Retreat Iris	18875	31.7.33	9	6,455	3·91	252·62	350	Mature	263, 277, 308, 272	The Valley's Patrus
Retreat Ethel	20667	8.8.33	12	5,802	4·37	253·53	330	Sr. 4	237, 257, 291	Retreat Bright King
Retreat Laurette ..	16557	19.8.33	16	7,165	4·28	306·76	350	Mature	275, 257, 379	White Prince of Retreat
Retreat Marquesse ..	24248	24.8.33	N.O.C.	5,189	4·17	216·17	250	Sr. 2	249 ..	Wattle Park Bonnie Doon
Retreat Pearlette ..	24249	9.9.33	7½	5,882	3·77	221·68	270	Jr. 3	218 ..	Wattle Park Bonnie Doon
Retreat Poppette ..	24252	12.9.33	11½	6,212	4·28	265·90	250	Sr. 2	223 ..	Wattle Park Bonnie Doon
Muhlebach Bros., Batesford, Jersey (1).										
Strathey Lulu 2nd ..	37972	22.7.33	15	4,565	4·49	204·76	230	Jr. 2 ..	..	Strathbow Bonnie Fusilage

* 240 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Murray, H. C., Murrabit West, Jersey (2).										
Gwithian Belle 4th ..	Vol. 21	31.8.33	23½	6,015	4·87	293·02	230	Jr. 2	.. ..	Gwithian Melodia's Twylish
Gwithian Silvermine 2nd ..	Vol. 21	16.9.33	14½	5,021	5·34	268·21	230	Jr. 2	.. ..	Gwithian Melodia's Twylish
Nancarrow Bros., Kerang, Jersey (6).										
Bellaire Molly 8th ..	37975	5.7.33	20½	7,232	5·95	430·11	270	Jr. 3	422 ..	Werribee Fancy Clementine King
Pine Ridge Duchess ..	39776	14.7.33	19	7,010	5·77	404·43	270	Jr. 3	.. ..	Werribee Fancy Clementine King
Pine Ridge Princess ..	33553	30.8.33	13½	6,434	5·52	355·24	350	Mature	371 ..	Bellaire Count
Ballara Beauty 2nd ..	29537	14.9.33	15½	6,857	5·74	393·27	350	Mature	299, 388, 388	Werribee Madeira Cream's Masterpiece
Silvermine 27th of Banyule	11603	15.9.33	14	6,972	5·25	366·03	350	Mature	481, 435 ..	M.A.T. of Banyule
Bellaire Princess 4th ..	37122	20.9.33	21	8,118	4·47	362·68	350	Mature	479 ..	Thorn of King's Vale
Neave, E. B., Callignee, Jersey (7).										
Eastvale Dainty	33530	29.6.33	19	7,010	5·75	402·93	290	Sr. 3	287 ..	Banyule Airo
Latrobe Starfinch 2nd ..	24401	1.7.33	19½	7,827	5·16	403·52	350	Mature	321, 248 ..	Concentration of Banyule
Xavier Pearl	33563	4.7.33	25½	10,550	4·40	464·24	330	Sr. 4	359, 460 ..	Mozart of Warenda
Mendip Vanilla 3rd ..	23335	4.8.33	15	6,745	5·07	342·03	350	Mature	339, 324, 328	Mozart of Warenda
Eastvale Vanity	33532	18.8.33	23	8,905	4·74	421·72	310	Jr. 4	379, 471 ..	Butter King of Willis Vale
Brightside Sweet Pearl ..	29196	29.8.33	14	8,406	4·78	402·11	350	Mature	390, 293, 409	Sweet King of St. Albans
*Grangelea Defender's Favourite	29658	13.9.33	NO.C.	5,363	5·37	314·86	350	Mature	390, 314, 266	Mistletoe 2nd's V.C. of Tarnpirr
Nicholas, A. M. Shoreham, Jersey (15).										
Avonhurst Linda	33164	28.6.33	15	6,930	5·33	371·80	290	Sr. 3	236, 303 ..	Banyule Airshaft
Jubilee Maple	33343	2.7.33	11	5,543	5·07	280·81	270	Jr. 3	323 ..	Jubilee Whatlight
Selsey Rose	41947	10.7.33	19	6,659	5·72	380·78	230	Jr. 2	.. ..	Jubilee Asterlight
Jubilee Myrtle	33665	5.8.33	17	7,421	5·39	400·12	350	Mature	343, 354 ..	Jubilee Whatlight
Selsey Clementine ..	41944	6.8.33	17½	6,402	5·93	379·85	230	Jr. 2	.. ..	Ku Ku Fashion Plate (Imp. N.Z.)
Kantara Attraction ..	40486	8.8.33	17	5,571	6·28	349·70	230	Jr. 2	.. ..	Ku Ku Fashion Plate (Imp. N.Z.)
Jubilee Dillwynia ..	38341	17.8.33	12½	6,053	5·10	308·60	250	Sr. 2	263 ..	Jubilee Whatlight
Selsey Garenne	41945	17.8.33	19	6,802	5·59	380·41	230	Jr. 2	.. ..	Glenavon Starbright's Airshaft
Jubilee Waterlily ..	33796	20.8.33	12	6,317	5·83	368·55	310	Jr. 4	270, 319 ..	Jubilee Whatlight
Selsey Wyandotte ..	41949	23.8.33	11	4,869	6·55	318·71	230	Jr. 2	.. ..	Werribee Wyandotte's King
Jubilee Ranunculus ..	26186	27.8.33	10	9,833	4·31	423·41	350	Mature	404, 449 ..	Jubilee Fanlight
Jubilee Eucalyptus ..	33795	31.8.33	18½	6,573	5·96	391·44	310	Jr. 4	303, 382 ..	Jubilee Whatlight
Jubilee Ricious	38344	1.9.33	13	5,906	5·54	327·03	250	Sr. 2	264 ..	Jubilee Wheatenlight
Brucevale Fancy Starbright 3rd	28544	3.9.33	21½	7,965	6·40	509·94	350	Mature	314, 408 ..	Masterpiece of Brucevale
Werribee Clementine's Princess 3rd	24583	14.9.33	16½	9,018	5·89	531·34	350	Mature	372, 349, 445, 364, 538	Masterpiece (Imp.)
Nilsson, P. O., Tynong, Jersey (1).										
Grasmere May Leonie ..	37676	20.9.33	20	7,503	5·18	388·29	270	Jr. 3	.. ..	Werribee Masterman
Noble, T. and Son, Maffra, Jersey (8).										
Finchley Music	33537	7.7.33	18	6,536	5·92	386·66	330	Sr. 4	296, 404 ..	Werribee Lord Burnham
Finchley Vasilika ..	33744	8.7.33	19	6,329	6·16	389·80	230	Jr. 2	.. ..	Werribee Lord Burnham
Studleigh Harebell 11th ..	42070	10.7.33	17	6,629	5·69	377·39	230	Jr. 2	.. ..	Brucevale Lord Madeira
Finchley Jessie	33741	2.9.33	10	4,200	6·35	266·57	230	Jr. 2	.. ..	Werribee Lord Burnham
Jerseyina Nasturtium 3rd ..	37995	11.9.33	18	7,944	5·34	424·48	290	Sr. 3	381, 494 ..	Werribee Bluebell's Masterpiece
Linga Longa Wattle's Speck	25574	14.9.33	20	8,931	5·24	467·94	350	Mature	317, 373, 410, 492, 558	Canary's Handsome Boy of Linga Longa
Glady's Park Bluebells Princess	37994	13.9.33	19	7,592	6·15	466·66	250	Sr. 2	428 ..	Werribee Bluebells Masterpiece
Finchley Canary 3rd ..	37992	17.9.33	20	8,883	5·73	508·92	290	Sr. 3	354, 565 ..	Werribee Lord Burnham
Nolte, E. H., Merino, Jersey (6).										
Nairana Fairy 3rd ..	29231	23.6.33	6½	7,016	5·29	371·17	350	Mature	396, 411 ..	Garantie's Colonel of Penrhyn
*Nairana Fairy 7th ..	29235	30.7.33	4	6,330	5·06	320·01	290	Sr. 3	297, 394 ..	Strathbow Goldstar
*Nairana Cloth of Gold ..	29225	30.8.33	4	6,270	6·15	385·56	350	Mature	453, 450, 388	Burnside Audacious
Nairana Semeramis 4th ..	29231	5.9.33	9½	5,223	5·21	272·14	290	Sr. 3	305, 271 ..	Strathbow Goldstar
†Nairana Blue Bell 2nd ..	29209	9.9.33	4	4,995	5·73	286·14	350	Mature	417, 518 ..	Burnside Audacious
†Nairana Virginia 2nd ..	29263	21.9.33	4	4,710	4·49	211·62	350	Mature	270, 335, 303	Burnside Audacious
Norman, J. G., Pennyroyal, Jersey (4).										
Kantara Spring Flower ..	28203	10.7.33	29½	10,400	5·23	544·19	350	Mature	405, 441 ..	Ku Ku Fashion Plate (Imp. N.Z.)
Kantara Silvermine ..	40491	13.7.33	27½	9,113	5·54	504·93	250	Sr. 2	.. ..	Ku Ku Fashion Plate (Imp. N.Z.)
Kantara Jonquil	40488	16.7.33	23	8,319	4·95	411·80	250	Sr. 2	.. ..	Glen Iris Valiant Count
Clarendon Eyre Pinafore ..	29326	19.8.33	23	8,189	5·90	482·79	350	Mature	360, 442, 439	Masterpiece (Imp.)

* 240 days in test. † 210 days.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
O'Meara, B. R., Caldermeade, Ayrshire (1).										
Scotsville Sylvia	23220	21.8.33	N.O.C.	7,626	4·41	336·05	270	Jr. 3	.. ..	Hussar of Gleneira
O'Neil, J., Echuca, Jersey (4).										
Strathbow Heather Belle ..	29326	28.6.33	21½	7,686	7·10	545·90	330	Sr. 4	362, 508 ..	Studleigh Noble
Ballara Model 6th ..	33837	13.7.33	16	6,531	6·82	445·70	290	Sr. 3	380 ..	Brucevale Lord Fancy Madeira
Ballara Bluebell 4th ..	38007	3.8.33	27	9,153	5·65	516·92	250	Sr. 2	419 ..	Brucevale Lord Fancy Madeira
Fourshells Heroine 2nd ..	38346	3.8.33	11	6,273	5·31	333·09	250	Sr. 2	352 ..	Belgonia Propeller
Orchard, Mrs. L., Grahamvale, Jersey (1).										
Jerseyvale Patty	26118	14.8.33	N.O.C.	3,671	4·25	156·12	350	Mature	192, 289, 280	Princess 2nd's Twylish of Grangelea
Osborne, H. M., Poowong East, Jersey (7).										
Grangelea Prim 2nd ..	26391	10.7.33	4	5,207	5·39	280·89	350	Mature	363, 307, 229, 311	Dandy of Grangelea
Grangelea Goldfinch 5th ..	26390	22.7.33	8	4,418	6·14	271·34	350	Mature	313, 274, 217, 333	Mistletoe 2nd's V.C. of Tarnpirr
*Grangelea Rosebud 4th ..	26393	7.8.33	4	3,795	5·28	200·28	350	Mature	245, 228, 227	Dandy of Grangelea
Melrose Jenny Lind 22nd ..	29649	9.8.33	13	5,828	6·05	352·50	350	Mature	294, 331, 381	Sunset of Melrose
*Dainty 2nd of Grangelea..	23003	11.8.33	4	3,840	4·81	184·68	350	Mature	373, 427, 347, 308, 276	Defender's V.C. of Grangelea
Conaire Bunty 2nd ..	39330	3.9.33	8½	2,936	6·46	189·52	230	Jr. 2	.. ..	Grangelea Butter Boy
Conaire Rosebud 2nd ..	39335	4.9.33	9	3,914	5·52	216·21	230	Jr. 2	.. ..	Grangelea Butter Boy
Overend, Mrs. A. E., Sale, Jersey (7).										
Bon Accord Princess Carmen	Vol. 21	13.7.33	10	3,200	5·63	180·71	230	Jr. 2	.. ..	Bon Accord John
Bon Accord Queen Carmen	38012	20·7·33	17	5,324	5·16	274·74	290	Sr. 3	293, 311 ..	Bon Accord David
Peggy of Bon Accord ..	21545	11.8.33	16½	6,262	5·46	341·82	350	Mature	260, 353, 364, 367, 374, 417	Picador of Bon Accord
Bon Accord Mascotte ..	38011	12.8.33	16	5,052	5·31	268·17	290	Sr. 3	290, 305 ..	Bon Accord David
Bon Accord Waremma ..	38951	22.8.33	16	5,148	5·10	262·68	230	Jr. 2	223 ..	Bon Accord John
Bon Accord Warestha 2nd	Vol. 21	25.8.33	10	3,566	4·57	162·89	230	Jr. 2	.. ..	Bon Accord John
Bon Accord Bertha's Spark	Vol. 21	25.9.33	16½	5,390	4·89	263·61	230	Jr. 2	.. ..	Bon Accord John
Parker Bros., Seymour, Ayrshire (9).										
Delamere Blush	22677	6.7.33	11½	8,339	4·69	391·34	270	Jr. 3	302 ..	Cathcart Flashlight
Cathcart Fame	24714	12.7.33	11	6,228	4·87	303·08	290	Sr. 3	309 ..	Cathcart Lloyd
Cathcart Hope	14843	23.7.33	16½	9,464	3·65	345·29	350	Mature	221, 419 ..	Poppy's Advance of Ben Kell
Cathcart Blanche ..	14839	1.8.33	20	9,110	4·37	398·14	350	Mature	225, 264, 318, 413	Poppy's Advance of Ben Kell
Delamere Helena ..	22679	2.9.33	12	6,822	3·93	268·20	250	Sr. 2	253 ..	Cathcart Bowler
Delamere Hostess ..	23620	4.9.33	11½	4,908	3·70	181·70	230	Jr. 2	.. ..	Cathcart Bowler
Cathcart Hetty	21137	7.9.33	18½	9,704	4·34	420·86	330	Sr. 4	320, 389 ..	Cathcart Mentor
Delamere Harmony's Delight	23618	7.9.33	12½	5,964	3·93	234·00	230	Jr. 2	.. ..	Cathcart Bowler
Delamere Honeysuckle ..	23619	25.9.33	N.O.C.	5,627	4·42	248·75	230	Jr. 2	.. ..	Ben Kell Watford
Pattison, F., Tongala, Aryshire (3).										
Willow Park Amy ..	23342	18.7.33	14½	7,994	4·15	331·62	250	Sr. 2	273 ..	Willow Park Prince
Willow Park Moira ..	24459	31.7.33	20	5,928	3·78	224·36	230	Jr. 2	.. ..	Willow Park Prince
Willow Park Ella ..	16926	1.8.33	5	8,799	4·12	362·34	350	Mature	303, 310, 302	Tonga Park James
Pearson, J., Nerrena East, Jersey (4).										
Warrawee Peggy	Vol. 21	2.8.33	8½	5,942	4·83	286·78	230	Jr. 2	.. ..	Banyule Tympani
Welbourne Bright Light ..	38191	8.8.33	12	6,364	5·43	345·44	290	Sr. 3	.. ..	Studleigh Progress
Glenmoor Peerless ..	33609	6.9.33	N.O.C.	6,831	5·36	365·87	350	Mature	354, 395, 395	Peerless 19th's Prince of Melrose
Warrawee Music	38041	21.9.33	4	5,550	5·43	301·44	310	Jr. 4	422, 318 ..	Banyule Tympani
Phillips, J. H., Speewa, Jersey (2).										
Vanilla of Peri	18914	30.8.33	20	8,837	5·31	469·55	350	Mature	286, 302, 366, 375, 327, 405	Carnation's Bosun of Peri
Kantara Jessamine 2nd ..	40487	15.9.33	15	6,852	5·30	363·34	250	Sr. 2	331 ..	Glen Iris Valiant Count
Pollard, C. F., Wodonga, Jersey (1).										
Bonegilla Hyacinth ..	38052	23.8.33	16	7,316	5·40	395·18	270	Jr. 3	315 ..	Springhurst Byron
Powell, Mrs. K. E., Camperdown, Jersey (3).										
†Mount Violet Queen's Betty	38062	4.7.33	N.O.C.	6,100	5·31	324·01	250	Sr. 2	.. ..	Mount Violet Maitland
‡Mount Violet Kyeema ..	28374	26.8.33	N.O.C.	7,740	4·80	371·43	350	Mature	303, 386, 499, 581	Statesman of Colac
‡Cleveland Countess Lily Petal	21579	27.8.33	N.O.C.	7,605	4·84	367·92	350	Mature	298, 419, 425, 443, 555	Maitland Petal Viscount of Elouera

* 240 days in test. † 248 days in test. ‡ 210 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Poyner, N. R., Lilydale, Jersey (4).										
Kyora Jessie 2nd ..	26197	5.8.33	14	6,739	5·83	392·55	350	Mature	299, 374, 320, 419, 486	Foch of Jerarra
Cream Belle of Kirkhill ..	21519	15.8.33	12½	6,784	5·11	346·62	350	Mature	270, 360, 376, 302, 440, 444	Major of Kirkhill
Lilydale Cream Belle ..	C.R.	6.9.33	10½	3,977	5·99	238·38	250	Sr. 2	.. ..	Lilydale Dauntless
Kyora Foch's Anthem 2nd..	23405	16.9.33	15	6,629	5·21	345·68	350	Mature	285, 317, 324, 306, 402, 381	Foch of Jerarra
Poynton, W. H., and Sons, Macarthur, Jersey (3).										
Lightwood's Cora 2nd ..	40724	20.7.33	11½	4,895	5·60	274·32	230	Jr. 2	.. ..	Hazeldale Sea Lord
Lightwood's Cora.. ..	40723	24.8.33	12½	5,123	6·13	313·97	270	Jr. 3	326 ..	Castlemaddie Corn King
Castlemaddie Cora	29095	23.9.33	19½	7,005	5·17	362·06	350	Mature	384 ..	King Cora of Castlemaddie
Prout, A. P., Leongatha, Jersey (2).										
*Wattle Vale Sunny ..	26311	31.7.33	4	5,940	4·95	293·89	350	Mature	321, 405, 375, 370	Retford Deer's Noble
Pineleigh Marchflower ..	Vol. 21	9.9.33	13½	5,246	5·54	290·67	230	Jr. 2	.. ..	Wattle Vale Alladin
Pullar, P. G., Tatura, Friesian (2).										
Road's End Nora ..	4235	9.7.33	N.O.C.	11,178	3·44	384·64	250	Sr. 2	.. ..	Netherland King Sylvia
Goulburn Iona	2767	31.7.33	31	13,517	3·23	436·12	350	Mature	.. ..	Burnbank Iona Patch
Purss, F. W., Walwa, Jersey (3).										
Clarendon Eyre Lady Luck	24674	1.9.33	N.O.C.	10,821	5·53	598·85	350	Mature	447, 596 ..	Achievement of Clarendon Eyre
Willow View Lady Fair ..	34292	3.9.33	N.O.C.	6,278	6·20	389·34	270	Jr. 3	434 ..	Springfield Numa
Clarendon Eyre Baby Mine	29616	9.9.33	N.O.C.	6,855	5·73	392·98	350	Mature	379, 428 ..	Eminent V.C. (Imp. N.Z.)
Quigley and Bennett, Yinnar, Jersey (5).										
Ellendale Kirsty 4th ..	29321	23.7.33	15	7,145	5·10	364·63	350	Mature	289, 371, 458	Mistletoe 2nd Treasure of Lynuilg
Ellendale Kirsty 7th ..	39607	9.8.33	19	7,382	5·48	404·40	290	Sr. 3	367, 440 ..	Edmonton Viking
Ellendale Kirsty 6th ..	38088	20.8.33	22½	8,393	4·92	413·05	310	Jr. 4	372, 422 ..	Mistletoe 2nd's Treasure of Lynuilg
Linga Longa Cloudy 3rd ..	32958	6.9.33	21	8,664	5·90	511·03	350	Mature	465 ..	Dawn of Warenda
Ellendale Romany ..	39609	8.9.33	14½	7,266	4·62	335·52	270	Jr. 3	419 ..	Ellendale Trumpeter
Raggatt, F., Tongala, Jersey (3).										
Carney Dell Loriana 2nd ..	Vol. 21	14.8.33	15	6,617	4·99	329·93	230	Jr. 2	.. ..	Beau Brummel of Banyule
Strathbow Goldie 8th ..	38089	9.9.33	10	6,167	5·63	347·27	270	Jr. 3	288 ..	Banyule Mollerne
Mayland Heather Bell ..	26150	14.9.33	14	7,907	6·24	493·02	350	Mature	336, 329, 401, 479, 538	Starbright's Prince of Glen Iris
Raleigh, H. E. (Miss), Pakenham Upper, Jersey (4).										
Goronga Farm Aviatrix ..	Vol. 21	20.7.33	14½	6,226	5·28	328·94	230	Jr. 2	.. ..	Banyule Air Gun
Goronga Farm Daffodil Octavia	Vol. 21	18.8.33	19	6,093	5·24	319·64	230	Jr. 2	.. ..	Banyule Air Gun
Mornmoot Modesty 2nd ..	33138	26.8.33	17½	9,329	5·82	542·87	310	Jr. 4	381, 524 ..	Choirmaster of Banyule
Goronga Farm Briar Rose ..	..	4.9.33	12½	4,913	5·67	278·77	230	Jr. 2	.. ..	Banyule Air Gun
Rankin, W. J., Trafalgar, Jersey (1).										
†Marimba Jessamine's Duchess	38378	7.7.33	N.O.C.	7,425	5·70	423·18	310	Jr. 4	426 ..	Sweetbread's Duke of Glen Iris
Read, J. D., Springhurst, Jersey (5).										
Springhurst Tecoma 4th ..	33651	6.7.33	22½	7,058	6·28	443·00	290	Sr. 3	325, 451 ..	Starbright's Prince of Glen Iris
Springhurst Golden Wattle	41995	10.8.33	21	7,521	6·38	479·82	270	Jr. 3	440 ..	Starbright's Prince of Glen Iris
Springhurst Sybil Lily ..	41998	15.8.33	24	7,710	5·60	431·60	230	Jr. 2	.. ..	Bellfaire Seaborn Successor
Narcissus of Springhurst ..	18935	20.8.33	24	10,247	5·85	599·52	350	Mature	340, 433, 624, 544, 622, 640, 626	Starbright's Prince of Glen Iris
Springhurst Tomato 3rd ..	38110	25.8.33	22	8,771	6·12	537·14	270	Jr. 3	450 ..	Starbright's Prince of Glen Iris
Rechenberg, J. F., Marshall, Ayrshire (9).										
Gala Venus	24917	1.9.33	6	4,092	4·50	184·26	230	Jr. 2	.. ..	Scotswood Adonis Earl
Camelot Bonnie Maid ..	24662	10.9.33	6	8,061	4·14	333·47	290	Sr. 3	281 ..	Scotswood Adonis Earl
Camelot Boronia	25893	12.9.33	14½	5,250	4·70	246·90	230	Jr. 2	.. ..	Scotswood Adonis Earl
Camelot Bonnie Lass ..	25892	13.9.33	14	5,682	4·23	240·08	230	Jr. 2	.. ..	Scotswood Adonis Earl
Camelot Lady Mona ..	25895	14.9.33	9	4,405	4·83	212·91	230	Jr. 2	.. ..	Scotswood Adonis Earl
Gala Gain 3rd	21436	16.9.33	22	9,296	4·37	405·84	350	Mature	421 ..	Sparrovale Ronald
Gala Gain 4th	24909	18.9.33	16	7,583	4·19	319·85	250	Sr. 2	290 ..	Scotswood Adonis Earl
Gala Flower	24908	21.9.33	14	5,717	5·15	294·27	230	Jr. 2	.. ..	Scotswood Adonis Earl
Sparrovale Merlyn ..	16680	26.9.33	11½	7,842	4·08	320·06	350	Mature	334 ..	Sparrovale His Luck

* 253 days in test. † 240 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Richardson, W. S., Bacchus Marsh, Jersey (3).										
Sutton Lea Pariel 2nd ..	38137	9.7.33	19	5,922	4·98	294·95	250	Sr. 2	282 ..	Banyule Petalon 2nd
Sutton Lea Midge ..	29350	28.8.33	19	6,318	5·28	333·87	350	Mature	179, 329, 317	Sutton Lea Impulse
Sutton Lea Air Mite ..	38135	3.9.33	18	7,713	5·10	393·32	290	Sr. 3	294 ..	Banyule Petalon 2nd
Robinson, S. L. (Miss), East Kew, Jersey (6).										
Kyora Sybil's Oakleaf 2nd ..	C.R.	11.7.33	7½	2,753	6·35	174·75	230	Jr. 2	.. ..	Kyora Dream's Volunteer
Kyora Dora 2nd	34301	19.7.33	16½	5,924	5·42	321·23	290	Sr. 3	311 ..	Kyora Twinkles' Volunteer
Kyora Bettws-y-coed 2nd ..	34299	17.8.33	12½	6,249	5·35	334·21	290	Sr. 3	278 ..	Miama's Volunteer of Woodside
Kyora Naldera	29371	30.8.33	11½	5,226	4.55	237·53	350	Mature	235, 279 ..	Foch of Jerrara
Kyora Dream Girl 2nd ..	38173	12.9.33	N.O.C.	5,037	6·53	329·03	250	Sr. 2	309 ..	Woodside Reprieve's Volunteer
Kyora Rosedream 2nd ..	34304	16.9.33	N.O.C.	6,338	5·61	355·54	290	Sr. 3	291 ..	Miama's Volunteer of Woodside
Rodda, W. G., Warracknabeal, Jersey (3).										
Lady Rover of Danton ..	16239	31.7.33	17	6,467	5·63	366·02	350	Mature	456, ..	Jellicoe of Melrose
Wattle Grove Jean ..	21256	11.8.33	13½	6,426	4·82	309·73	350	Mature	280, 403, 434, 311	Lord Juan of Lebanon
Wootong Vale Gold Treasure	42638	19.8.33	6½	8,963	4·35	390·21	270	Jr. 3	316 ..	Wootong Vale Gold Duke
Ronalds, O., Tarago, Jersey (6).										
Somerville Sunmorn ..	28784	9.7.33	20	8,891	4·75	422·11	330	Sr. 4	398 ..	Banyule Aeronaut
Somerville Princess Valda 2nd	38185	16.8.33	17½	8,596	5·07	435·91	270	Jr. 3	363 ..	Banyule Aeronaut
Somerville Ramona ..	28781	21.8.33	21½	7,434	6·76	502·46	330	Sr. 4	491 ..	Banyule Aeronaut
Jindivick Winsome ..	Vol. 21	3.9.33	14½	7,879	4·75	374·06	230	Jr. 2	.. ..	Somerville Master Babs
Jindivick Heroine 4th ..	40413	8.9.33	14	9,868	5·34	526·50	250	Sr. 2	433 ..	Somerville Reputation
Glenwood Marchfly ..	38182	23.9.33	15½	8,974	5·82	522·01	330	Sr. 4	532 ..	Lady Choice's King 2nd of Glenwood
Runciman, C. M., Murraydale, Jersey (2).										
Bideford Sapphire ..	33716	27.7.33	10	6,233	5·11	318·77	330	Sr. 4	276, 413 ..	Warwick Golden Cheviolet
*Bideford Cream Stockings 3rd	38911	3.8.33	4	5,446	4·84	263·59	270	Jr. 3	280 ..	May's Twylish of Jersey Vale
Ryan, D. M. and Sons, Pirron Yallock, Illawarra Shorthorn (4).										
†Basin Banks Midge ..	Vol. 4 A.I.S.H.B.	31.7.33	4	5,700	3·26	185·76	230	Jr. 2	.. ..	Marquis of Fairfield
‡Basin Banks Fortune 3rd ..	Vol. 4 A.I.S.H.B.	28.8.33	4	3,570	3·70	132·03	230	Jr. 2	.. ..	Marquis of Fairfield
Basin Banks Bracelet ..	Vol. 4 A.I.S.H.B.	4.9.33	8½	4,655	3·27	152·13	230	Jr. 2	.. ..	Marquis of Fairfield
Pearl of Lawarra ..	16499	23.9.33	8	7,647	4·07	311·12	350	Mature	331 ..	Mascot of Lawarra
Salesian College, Sunbury, Ayrshire (3).										
Rupertswood Lucy ..	24328	5.7.33	13	6,117	4·10	250·72	290	Sr. 3	315 ..	Holly Green Gold Coin
Rupertswood Pansy ..	24329	22.7.33	18	8,307	3·85	320·18	290	Sr. 3	318 ..	Lancer of Rupertswood
Rupertswood Spotless ..	20712	18.9.33	14½	7,176	3·35	240·52	330	Sr. 4	167, 203, 258	Bonnie Scot of Gowrie Park
Salesian College, Sunbury, Friesian (6).										
Ingolston Inka Josie ..	3532	15.7.33	26	11,424	3·86	440·50	310	Jr. 4	.. ..	Awapuna Dutchman
Ingolston Madge ..	4097	3.8.33	22	11,348	3·34	378·99	330	Sr. 4	.. ..	Awapuna Dutchman
Ingolston Bonnie Bess ..	4090	18.8.33	18	7,008	3·69	258·32	230	Jr. 2	.. ..	Greenvale Ideal Segis
Ingolston Jess	Vol. 13	25.8.33	12½	6,663	4·06	270·72	230	Jr. 2	.. ..	Greenvale Ideal Segis
Ingolston Snowy Goose ..	4108	4.9.33	26	6,902	3·77	259·93	230	Jr. 2	.. ..	Greenvale Ideal Segis
Ingolston Segis Violet ..	4107	15.9.33	20	7,658	3·52	269·69	230	Jr. 2	.. ..	Greenvale Ideal Segis
Schier, A. H., Kernot, Ayrshire (16).										
†Scotswood Moira ..	Vol. 27	15.7.33	4	3,885	4·87	189·18	250	Sr. 2	.. ..	Bell Boy of Oakbank
§Scotswood Quality's Best	Vol. 27	17.7.33	4	2,445	4·40	107·67	230	Jr. 2	.. ..	Scotswood Aristocrat
†Scotswood Goldlace 2nd ..	20735	22.7.33	4	4,605	4·03	185·45	350	Mature	168, 211 ..	Scotswood Qualitone
†Scotswood Mona 2nd ..	24350	28.7.33	4	4,478	4·22	189·06	270	Jr. 3	.. ..	Bell Boy of Oakbank
Scotswood Marge ..	24345	13.8.33	9	4,085	5·11	208·73	290	Sr. 3	221 ..	Scotswood Maimie's Earl
‡Scotswood Mamie's Lady	Vol. 27	20.8.33	4	3,570	4·75	169·70	230	Jr. 2	.. ..	Scotswood Pearler
†Scotswood Pardon ..	Vol. 27	28.8.33	4	5,070	4·93	249·90	250	Sr. 2	.. ..	Federal of Warrook
§Scotswood Magnolia ..	24342	5.9.33	4	2,865	3·75	107·42	310	Jr. 4	114 ..	Oakbank Aeronaut
Scotswood Pearl	18930	7.9.33	8	8,300	4·06	337·09	350	Mature	297, 238, 380, 324	Bell Boy of Oakbank
Scotswood Mamie's Marie ..	24344	8.9.33	5	4,242	4·84	205·35	310	Jr. 4	165 ..	Federal of Warrook
Glen Afton Ramona ..	22779	12.9.33	4	5,112	4·53	231·37	290	Sr. 3	.. ..	Donald Scot of Gleneira
Scotswood Alert 2nd ..	18911	13.9.33	15	4,445	4·11	182·85	230	Jr. 2	.. ..	Scotswood Digger
†Scotswood Starbright ..	Vol. 27	15.9.33	4	3,555	4·36	154·85	230	Jr. 2	.. ..	Scotswood Digger
Scotswood Pamela ..	25437	15.9.33	6	4,197	3·74	157·01	250	Sr. 2	.. ..	Summerhill Digger
Scotswood Janet 2nd ..	Vol. 27	15.9.33	8	6,125	4·40	269·48	270	Jr. 3	.. ..	Summerhill Digger
Scotswood Peeress ..	25438	20.9.33	12	6,488	4·41	286·24	250	Sr. 2	.. ..	Summerhill Digger
Schilpalius, A., Kilmany South, Jersey (3).										
de Lecq Marigold 2nd ..	33733	31.7.33	10½	5,105	5·96	304·48	290	Sr. 3	266, 262 ..	Werribee Starbright's Northwood
de Lecq Briar	33730	13.8.33	14	6,000	5·27	316·32	290	Sr. 3	260, 314 ..	Werribee Starbright's Northwood
Fairbank Peerless ..	38227	17.9.33	13	5,915	5·32	314·78	250	Sr. 2	246 ..	Wompini Beau Brummel

* 254 days in test. † 240 days in test. ‡ 210 days in test. § 180 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk.	Average Test. lb.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Scott, F. E. S., Scotsburn, Dairy Shorthorn (3).										
Morven Rosa Hope 4th ..	D.S.H. B.A.	16.8.33	20	7,183	3·77	271·03	250	Sr. 2	.. ..	Connaught 60th
Morven Cressida 36th ..	D.S.H. B.A.	14.9.33	19	8,408	3·94	331·11	270	Jr. 3	.. ..	Connaught 60th
Willow Park Peggy 3rd ..	D.S.H. B.A.	16.9.33	4½	5,996	4·07	243·75	290	Sr. 3	193, 228 ..	Willow Park Eminent
Shearman, A. and W., Darnum, Jersey (4).										
Oak Park Perfection ..	C.R.	7.8.33	15	5,822	6·35	369·88	230	Jr. 2	.. ..	Brucevale Lord Fancy Attraction
Sleepy Valley Milkmaid ..	C.R.	1.9.33	18	5,361	5·87	314·65	230	Jr. 2	.. ..	Holly Dell Twylish
Oak Park Sweet Lady ..	Vol. 21	8.9.33	17	5,316	6·99	371·83	230	Jr. 2	.. ..	Brucevale Lord Fancy Attraction
Oak Park Royal Duchess ..	Vol. 21	9.9.33	18	5,831	6·32	368·27	230	Jr. 2	.. ..	Brucevale Lord Fancy Attraction
Simpson and Son, Ferntree Gully, Jersey (1).										
Dunalister Northern Fascination 3rd	Vol. 21	31.8.33	12	5,609	5·53	312·88	230	Jr. 2	.. ..	Staghorn Butter's Masterpiece
Smethurst, J. R., Thorpdale, Jersey (2).										
Aveley Flicker	23440	30.8.33	22½	6,601	5·45	360·02	350	Mature	318, 302, 382, 389, 427	Werribee Fancy Butter King
Bray Tor Jess	C.R.	16.9.33	N.o.c.	5,684	4·72	268·31	230	Jr. 2	.. ..	Pansy's Chief of Linden
Smith Bros., Mirboo North, Jersey (34).										
Sylvan Hill Lorna ..	42092	12.7.33	14½	4,814	6·37	306·68	250	Sr. 2	312 ..	Somerville Heir Apparent
Sylvan Hill Molly ..	42093	14.7.33	9	5,557	4·98	276·92	250	Sr. 2	270 ..	Somerville Heir Apparent
Sylvan Hill Handsome Girl..	33762	16.7.33	14	5,712	6·31	360·49	330	Sr. 4	419 ..	Handsome Boy 3rd of Jerseyholme
Sylvan Hill Dainty ..	42090	20.7.33	14	4,900	5·54	271·29	270	Jr. 3	282 ..	Somerville Heir Apparent
Sylvan Hill Emerald ..	38280	20.7.33	12½	4,689	5·96	279·59	290	Sr. 3	293 ..	Sylvan Hill Starlight's Pride
Sylvan Hill Ruby ..	42094	20.7.33	19½	6,631	5·07	336·08	250	Sr. 2	294 ..	Somerville Heir Apparent
Sylvan Hill Buttercup ..	Vol. 21	26.7.33	14	4,386	5·84	256·03	230	Jr. 2	.. ..	Somerville Heir Apparent
Sylvan Hill Patricia ..	26363	26.7.33	17	7,781	4·85	377·63	350	Mature	429 ..	Butterwinks 2nd of Jersey Hill
Sylvan Hill Bright Tissue ..	23445	26.7.33	18	8,214	4·77	392·06	350	Mature	453, ..	Butterwinks 2nd of Jersey Hill
Sylvan Hill Daisy 2nd ..	26361	27.7.33	12½	6,608	5·75	380·12	350	Mature	366 ..	Merry Lad of Sylvan Hill
Sylvan Hill Noble Lady ..	38283	27.7.33	12	5,492	5·54	304·11	290	Sr. 3	304 ..	Somerville Heir Apparent
Sylvan Hill Thelma ..	Vol. 21	28.7.33	15	5,262	5·09	267·85	230	Jr. 2	.. ..	Somerville Heir Apparent
Sylvan Hill Countess ..	38278	29.7.33	19	7,185	5·27	378·64	310	Jr. 4	443 ..	Somerville Heir Apparent
Sylvan Hill Dream Girl ..	28279	29.7.33	18	5,824	4·70	273·84	290	Sr. 3	332 ..	Sylvan Hill Starlight's Pride
Sylvan Hill Primrose ..	38284	29.7.33	13½	7,030	5·35	375·86	290	Sr. 3	392 ..	Somerville Heir Apparent
Sylvan Hill Rock Lily ..	Vol. 21	29.7.33	12½	4,193	6·31	264·44	230	Jr. 2	.. ..	Somerville Heir Apparent
Sylvan Hill Charm ..	Vol. 21	30.7.33	15½	5,888	4·85	285·72	230	Jr. 2	.. ..	Somerville Heir Apparent
Sylvan Hill Dawn ..	42091	30.7.33	14½	5,724	5·02	287·46	270	Jr. 3	223 ..	Somerville Heir Apparent
Sylvan Hill Jewel ..	29487	30.7.33	23	7,509	4·81	360·99	350	Mature	434 ..	Merry Lad of Sylvan Hill
Sylvan Hill Beauty ..	38277	31.7.33	18½	6,312	5·94	375·16	290	Sr. 3	435 ..	Somerville Heir Apparent
Sylvan Hill Hazel ..	Vol. 21	31.7.33	11½	3,437	5·36	184·06	230	Jr. 2	.. ..	Sylvan Hill Starlight's Pride
Sylvan Hill Starlight ..	23447	1.8.33	14	5,619	5·42	304·83	350	Mature	379 ..	Butterwinks 2nd of Jersey Hill
Sylvan Hill Waterlily ..	38287	5.8.33	15	5,760	6·04	347·96	310	Jr. 4	387 ..	Somerville Heir Apparent
Sylvan Hill Attractive ..	33760	6.8.33	19	7,325	5·88	430·97	350	Mature	490 ..	Handsome Boy 3rd of Jerseyholme
Sylvan Hill Merry Girl ..	23446	7.8.33	10	5,955	5·70	339·65	350	Mature	402 ..	Merry Lad of Sylvan Hill
Sylvan Hill Sparkle ..	Vol. 21	7.8.33	12½	6,428	4·76	306·11	230	Jr. 2	.. ..	Somerville Heir Apparent
Sylvan Hill Alma Belle ..	42089	8.8.33	15½	5,987	5·82	348·51	250	Sr. 2	279 ..	Somerville Heir Apparent
Sylvan Hill Winsome ..	Vol. 21	8.8.33	16	3,161	5·80	183·44	230	Jr. 2	.. ..	Sylvan Hill Starlight's Pride
Sylvan Hill Alma ..	23444	11.8.33	23	9,950	5·23	520·67	350	Mature	507 ..	Butterwinks 2nd of Jersey Hill
Sylvan Hill Peeress ..	Vol. 21	24.8.33	15½	4,922	5·60	275·54	230	Jr. 2	.. ..	Sylvan Hill Starlight's Pride
Duchess 4th of Goulburn ..	11711	25.8.33	18½	8,906	5·50	489·70	350	Mature	517 ..	Rufus of Melrose
Sylvan Hill Daisy ..	21669	27.8.33	19½	7,739	5·41	418·92	350	Mature	501 ..	Butterwinks 2nd of Jersey Hill
Sylvan Hill Lily 2nd ..	26362	2.9.33	17½	7,326	6·51	476·80	350	Mature	553 ..	Merry Lad of Sylvan Hill
Sylvan Hill Sunflower ..	Vol. 21	22.9.33	12	5,519	6·26	345·68	230	Jr. 2	.. ..	Somerville Heir Apparent
Smith, Emery G., Camperdown, Jersey (9).										
*Kameruka Fairyland ..	40464	21.7.33	4	4,575	4·78	218·69	250	Sr. 2	.. ..	Werribee Cream's Masterpiece
Kameruka Ringdove ..	40472	23.7.33	5½	4,750	5·87	278·94	230	Jr. 2	.. ..	Banyule Amplifier
†Kameruka Amplifier's Ilma	40457	25.7.33	5½	4,825	5·10	246·13	250	Sr. 2	.. ..	Banyule Amplifier
Elanora Bonnie Lass 3rd ..	39582	4.8.33	4	3,638	5·14	187·10	230	Jr. 2	.. ..	Burnside Harmony
Kameruka Partridge ..	40471	26.8.33	9½	5,193	5·32	276·23	250	Sr. 2	.. ..	Retford Golden Thorn
Kameruka Snipe	40476	26.8.33	12	4,589	5·03	230·64	250	Sr. 2	.. ..	Werribee Cream's Masterpiece
St. Ninan's Queen ..	41937	14.9.33	4½	2,700	5·73	154·76	230	Jr. 2	.. ..	Goldfield Quartz King
Kameruka Amplifier's Vanilla	40459	22.9.33	7½	4,128	5·02	207·17	270	Jr. 3	.. ..	Banyule Amplifier
Kameruka May	40470	22.9.33	7½	4,424	4·98	220·53	250	Sr. 2	.. ..	Banyule Amplifier

* 240 days in test. † 210 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk. lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Smith, E. L. and Sons, Woodend, Friesian (6).										
Homeleigh Clematis ..	A.P.P. 4 Vol. 11	1.7.33	14	8,919	4·17	372·31	330	Sr. 4	335, 383 ..	Homeleigh Playboy
Bolobek Adelina	3005	11.7.33	10½	7,272	3·61	262·16	350	Mature	318, 344, 307	Bolobek Top Mast
Pemberly Jessica Fobes ..	4194	19.7.33	23	10,509	3·59	377·56	230	Jr. 2	.. ..	Burnbank Prince Patch
Homeleigh Operetta ..	2798	25.7.33	19	9,687	3·36	325·40	350	Mature	272, 347, 370	Prince Fobes
Homleigh Co ntess Posch ..	4076	24.8.33	17	7,686	3·56	273·68	230	Jr. 2	.. ..	Homeleigh Blackwood
Homeleigh Netherland Rosalba	4078	19.9.33	16	6,951	3·36	233·37	230	Jr. 2	.. ..	Longbeach Netherland King 2nd
Smith, G. and W., Fish Creek, Jersey (11).										
Rydon Onyx 2nd ..	41927	7.7.33	16½	5,939	5·15	305·76	230	Jr. 2	.. ..	Melrose Migrant
Rydon Petal 2nd ..	41928	8.7.33	17	6,926	5·54	383·93	230	Jr. 2	.. ..	Rydon Sheik
*Rydon Estella	41923	10.7.33	21	8,267	4·72	390·20	230	Jr. 2	.. ..	Melrose Migrant
Rydon Bonnie Girl ..	41921	16.7.33	17½	5,933	5·79	343·62	230	Jr. 2	.. ..	Burnside Harmony
Hazel Grange Minnehaha ..	33890	17.7.33	17½	8,256	4·54	375·15	290	Sr. 3	393 ..	Dumfries Minnie's Eminent Boy
Rydon Lady Patsy 2nd ..	41925	17.7.33	18½	6,341	5·26	333·32	230	Jr. 2	.. ..	Melrose Migrant
Rydon Golden Lady ..	41924	7.8.33	16	5,421	5·52	299·20	230	Jr. 2	.. ..	Melrose Migrant
Rydon Silver Belle ..	33767	7.8.33	15	8,181	5·41	442·65	290	Sr. 3	428, 465 ..	Burnside Monitor
Rydon Duchess	41922	14.8.33	18	5,634	5·83	328·68	230	Jr. 2	.. ..	Melrose Migrant
Elanora May Queen 2nd ..	38289	18.8.33	24	10,532	5·40	568·50	290	Sr. 3	387, 502 ..	Burnside Harmony
Rydon Mona	33765	16.9.33	18½	6,776	6·37	431·39	310	Jr. 4	372 ..	Burnside Monitor
Smith, R. W. and Sons, Murraydale, Friesian (1).										
Ingolston, Jessie De Kol ..	4095	19.8.33	25½	10,770	3·24	348·92	270	Jr. 3	.. ..	Awapuni Dutchman
Somers, E. A., Longwarry, Jersey (2).										
†Wyeete Dolly	33532	8.7.33	4	4,920	5·35	263·16	350	Mature	.. ..	Eminent's Prince of Clarendon Eyre
†Margaret's Choice of Somerset	13828	24.7.33	4	3,360	4·83	162·27	350	Mature	174 ..	Lord Silvermine 8th of Banyule
Steele, C., Shoreham, Jersey (2).										
Avonhurst Gem	33162	6.8.33	15	8,061	5·08	409·19	310	Jr. 4	323, 384 ..	Banyule Airshaft
Kantara Gilly Flower ..	33677	10.8.33	10½	7,061	5·25	370·95	310	Jr. 4	291, 340 ..	Ku Ku Fashion Plate
Stoll, L. T. (Mrs.), Rokeby, Jersey (7).										
Gwen of Benguella ..	17425	28.6.33	14	5,568	4·07	226·66	350	Mature	189, 272, 321, 302	King's Victory of Somerville
Cloverbank Chevy 2nd ..	Vol. 21	28.6.33	10½	3,890	4·81	187·02	230	Jr. 2	.. ..	Cloverbank Lord Twylish
Cloverbank Camellia's Joy	38363	15.7.33	10	5,594	6·07	339·82	330	Sr. 4	330, 441 ..	Brilliant Dawn of Linga Longa
Cloverbank Canary 2nd ..	38364	18.7.33	9	5,216	4·79	249·88	290	Sr. 3	305, 305 ..	Cloverbank Lord Twylish
Melrose Chevy 18th ..	25692	23.7.33	9	5,943	4·97	295·47	350	Mature	346, 326, 338	Sunset of Melrose
Cloverbank Gwen ..	39278	7.9.33	8	4,211	5·76	242·38	270	Jr. 3	223 ..	Cloverbank Lord Twylish
Cloverbank Camellia 2nd ..	C.R.	14.9.33	7	3,746	6·28	235·30	230	Jr. 2	.. ..	Cloverbank Lord Twylish
Stoney, W. B., Drouin West, Jersey (4).										
Melview Fuchsia 5th ..	Vol. 21	9.8.33	10	5,000	5·20	259·82	230	Jr. 2	.. ..	Handsome Boy 12th of Jerseyholm
Tarago Mystery	Vol. 21	2.8.33	10	4,155	6·04	250·80	230	Jr. 2	.. ..	Handsome Boy 12th of Jerseyholm
Wompini Grannie's Gem ..	33303	2.9.33	8	4,227	4·95	209·31	310	Jr. 4	234, 244 ..	Werribee Masterman
Melview Jenny Lind ..	29393	13.9.33	8	5,091	5·55	282·52	330	Sr. 4	284, 262 ..	Sunburst of Melrose
Sutton, H. and Son, Callignee, Jersey (2).										
Latrobe Princess 6th ..	25422	12.7.33	10½	5,112	5·29	270·49	330	Sr. 4	266 ..	Superstrain of Banyule
Glen Valley Rose Petal ..	28934	16.7.33	17½	6,741	4·79	323·02	350	Mature	316, 306 ..	Cream Lad of Mayland
Thomas and Taylor, Hamilton, Ayrshire (5).										
Carracoorte Viola 13th ..	19740	29.8.33	22½	9,138	4·55	415·84	350	Mature	189, 293 ..	Blue Bell's Pride of Glencourt
Carracoorte Bonnie 4th ..	24678	5.9.33	11½	8,007	4·07	326·08	270	Jr. 3	.. ..	Blue Bell's Pride of Glencourt
Carracoorte Bonnie 3rd ..	24677	11.9.33	11	7,132	5·25	374·32	270	Jr. 3	289 ..	Carracoorte Maidens Laddie
Carracoorte Betsy 22nd ..	24674	21.9.33	13	6,669	4·69	312·52	270	Jr. 3	.. ..	Blue Bell's Pride of Glencourt
Carracoorte Bellona 14th ..	23542	26.9.33	12	8,196	4·27	349·61	310	Jr. 4	230 ..	Gerty's Producer of Carracoorte
Tomasetti, B. G., Drouin West, Ayrshire (5).										
Glencorren Joy Belle ..	22331	7.8.33	14	7,923	4·38	346·89	270	Jr. 3	316 ..	Scotswood Michael 2nd
Glencorren Venus ..	26202	2.9.33	20	6,174	4·11	253·52	230	Jr. 2	.. ..	Scotswood Michael 2nd
Glencorren Milkmaid ..	22333	3.9.33	22	10,005	4.26	426.17	270	Jr. 3	337 ..	Scotswood Michael 2nd
Glencorren Violetta ..	20120	11.9.33	22	11,932	3.95	471·88	350	Mature	271, 317, 506	Glen Athol Jimmie
Glencorren Foam ..	21505	26.9.33	24½	8,617	5·01	431·45	310	Jr. 4	307, 444 ..	Glen Athol Brilliant

* 268 days in test. † 240 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk. lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Tuckey, J. F., Alberton, Ayrshire (8).										
Tregorland Tourmaline ..	16868	31.7.33	13½	8,174	4·11	335·71	350	Mature	202, 313, 335, 340, 377	Tregorland Idol
*Tregorland Kristina ..	19081	4.8.33	4	7,590	4·59	348·72	350	Mature	281, 299, 326, 279	Gowrie Park Scotchman
Tregorland Kiwi	25537	17.8.33	11	7,583	3·71	281·57	250	Sr. 2	248 ..	Gowrie Park Scottish Minstrel
Tregorland Kinklet ..	C.R.	21.8.33	12½	6,401	3·80	243·00	270	Jr. 3	242 ..	Gowrie Park Scottish Minstrel
Tregorland Knocker ..	25538	30.8.33	10	6,410	3·94	252·36	270	Jr. 3	233 ..	Gowrie Park Scottish Minstrel
Tregorland Kandy ..	26782	2.9.33	20½	6,629	4·00	265·01	230	Jr. 2	.. ..	Gowrie Park Scottish Minstrel
Tregorland Kea	C.R.	15.9.33	14	5,757	4·01	230·69	230	Jr. 2	.. ..	Gowrie Park Scottish Minstrel
Tregorland Inkle	C.R.	21.9.33	17½	6,788	4·47	303·16	230	Jr. 2	.. ..	Gowrie Park Scottish Minstrel
Vagg, E. J., Leongatha, Jersey (7).										
Bonnay Midgets Winnie ..	38976	4.7.33	12½	5,712	5·04	339·32	250	Sr. 2	.. ..	Welbourne Handsome Boy
Bonnay Mystery Maid 3rd..	33861	6.8.33	19	8,072	5·25	423·73	330	Sr. 4	297, 357, 412	Welbourne Handsome Boy
Rosyth Lady Tulip 3rd ..	38451	13.8.33	12	7,104	5·84	414·76	290	Sr. 3	288, 387 ..	Lord 2nd of Brucevale
Bonnay Mystery Maid 4th..	38977	21.8.33	13	5,874	5·11	300·34	270	Jr. 3	280 ..	Bonnay Handsome Boy
Bonnay Jessamine's Mona	38974	15.9.33	19	6,971	5·32	371·18	270	Jr. 3	333 ..	Welbourne Handsome Boy
Bonnay Lady's Amanda ..	38975	19.9.33	14	5,232	4·99	261·10	290	Sr. 3	266 ..	Welbourne Handsome Boy
Bonnay Phyllis	38978	24.9.33	17½	6,518	5·48	357·12	270	Jr. 3	301 ..	Welbourne Handsome Boy
Van Brummelen, J. K., Ferntree Gully, Friesian (2).										
Bolero Sylvia Maryke ..	3873	8.8.33	23½	10,970	3·73	408·75	270	Jr. 3	307 ..	St. Albans Queen's Korndyke 2nd
Bolero Sylvia Venus ..	3874	21.8.33	35½	15,463	3·66	566·43	310	Jr. 4	320, 339 ..	St. Albans Queen's Korndyke 2nd
Vaughan Bros., Girgaree, Jersey (7).										
*Lynroy Jean 4th ..	38464	26.7.33	4	5,130	5·62	288·40	270	Jr. 3	335 ..	Sherborne Wyandotte's King
*Lynroy Fancy	38459	27.7.33	4	5,755	5·82	335·20	330	Sr. 4	445, 475 ..	Sherborne Wyandotte's King
Lynroy Nancy 3rd ..	26269	21.8.33	7½	7,758	5·71	442·85	350	Mature	426, 450, 458, 410	Choice 2nd of Tarnpirr
Lynroy Doreen	40833	22.8.33	18	7,489	4·97	372·50	350	Mature	261, 334, 390	Sherborne Wyandotte's King
Lynroy Violet	33862	24.8.33	12½	5,963	5·23	312·14	330	Sr. 4	311, 381 ..	Sherborne Wyandotte's King
Lynroy Gladys 2nd ..	38463	29.8.33	14½	7,751	5·13	397·71	310	Jr. 4	372, 398 ..	Sherborne Wyandotte's King
Lynroy Jean 3rd ..	26268	24.9.33	8½	6,786	5·36	363·87	350	Mature	384, 441 ..	Choice 2nd of Tarnpirr
Waddell, H. M., Longwarry North, Jersey (5).										
Springvale Joan	28520	7.9.33	16	7,296	5·34	389·32	350	Mature	349, 409 ..	Conqueror of Somerville
Springvale Fanny ..	28518	15.9.33	14½	6,572	5·31	349·16	350	Mature	274, 361 ..	Conqueror of Somerville
Hylsbroke Mayflower ..	40268	16.9.33	12½	4,901	5·35	262·24	230	Jr. 2	.. ..	Chance of Hylsbroke
Junction Valley Hazel ..	38471	22.9.33	11½	5,703	5·01	285·83	290	Sr. 3	235, 305 ..	Lily's Chief of Banyule
Quamby Heroine ..	Vol. 21	25.9.33	11	4,625	5·04	232·97	230	Jr. 2	.. ..	Milkmaid's Chief of Banyule
Wade, W. J., Stratford, Jersey (4).										
Empress 9th of Jerseyholm	21328	26.7.33	14½	6,522	6·06	395·08	350	Mature	329, 406, 357, 442	Handsome Boy V. of Melrose
Inverbroom Silver Muriel 2nd	38483	7.8.33	23½	8,024	4·72	379·08	350	Sr. 2	346 ..	Economist of Aveley
Avonview Muriel ..	23140	17.9.33	18	7,899	4·92	388·77	350	Mature	235, 391 ..	Emperor (964)
Aveley Marie Antoinette 2nd	25648	24·9·33	23	11,004	5·52	606·91	350	Mature	536 ..	Mare Antony of Aveley
Walker, C. S., Swan Hill, Friesian (3).										
Warwick Piebe Canary ..	C.R.	14.8.33	22½	7,656	3·34	255·83	230	Jr. 2	.. ..	Greenvale Woodcrest Oakwood 2nd
Warwick Maggie Oakwood..	C.R.	21.9.33	15	7,623	2·94	223·90	230	Jr. 2	.. ..	Greenvale Woodcrest Oakwood 2nd
Warwick Maggie Leonora ..	4293	24.9.33	11	8,031	3·48	279·32	270	Jr. 3	326 ..	Burnbank Piebe Leonora
Walker, C. S., Swan Hill, Jersey (5).										
Warwick Pollydorcus ..	42448	3.8.33	17	6,405	5·59	358·35	250	Sr. 2	370 ..	Warwick Hudson
Warwick Augustus Marie 2nd	Vol. 21	18.8.33	10½	4,941	4·96	244·89	230	Jr. 2	.. ..	Preston Star King
Warwick Princess Stella ..	Vol. 21	28.8.33	12½	5,435	4·17	226·88	230	Jr. 2	.. ..	Preston Star King
Warwick Beauty	19012	8.9.33	5½	6,695	4·40	294·35	350	Mature	330, 330, 354, 260, 471	Chevrolet of Banyule
Warwick Pollyanna 2nd ..	Vol. 21	12.9.33	7½	5,295	5·20	275·27	230	Jr. 2	.. ..	Preston Star King
Wallace, A., Bendigo, Ayrshire (1).										
Springdale Dawn ..	15623	26.8.33	8	7,836	4·29	336·22	350	Mature	293, 304, 333	Sunrise of Ellerslie

* 240 days in test.

STANDARD HERD RECORDS—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk. lb.	Average Test.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Wallace, A., Bendigo, Jersey (2).										
Preston Bonnie Morocco ..	41620	6.8.33	11	4,992	4·46	222·52	230	Jr. 2	.. ..	Preston Pretty King
Vine Hill Pansy	29605	15.9.33	N.O.C.	5,948	4·93	293·39	350	Mature	281, 275, 337	Preston Jewel's Count
Watts, J., Stanhope, Jersey (1).										
Kantara Jessica	24580	24.8.33	21½	8,630	4·49	387·88	350	Mature	325, 416, 327	Ku Ku Fashion Plate
Watson, D. W., Glen Iris, Jersey (1).										
Banyarra Syringa 2nd ..	38793	14.9.33	14	5,322	5·92	315·09	270	Jr. 3	.. ..	Marc Antony of Aveley
Webb, H. L. and Son, Sunbury, Ayrshire (6).										
Holly Green May ..	20335	1.7.33	4	4,805	4·73	227·51	330	Sr. 4	238, 246 ..	Holly Green Masher
Holly Green Quest's Treasure	21775	9.8.33	16	7,116	4·08	290·11	290	Sr. 3	.. ..	Holly Green Masher
Holly Green Rita ..	24028	20.8.33	26	7,824	3·99	312·13	250	Sr. 2	.. ..	Holly Green Aid
Holly Green Annie ..	25118	7.9.33	11½	5,328	3·52	187·53	230	Jr. 2	.. ..	Holly Green Aid
Holly Green Ada ..	24017	12.9.33	17	7,380	3·91	288·33	290	Sr. 3	348 ..	Holly Green Gold Coin
*Holly Green Golden Queen	24021	22.9.33	4	3,790	4·21	159·45	250	Sr. 2	164 ..	Holly Green Gold Coin
West, J. C., Notting Hill, Illawarra, Shorthorn (4).										
Elsie 5th of Allawalla ..	7151	12.7.33	20½	10,008	4·03	403·70	350	Mature	265, 451 ..	Premier of Fairfield
Rainbow 4th of Alne Bank	14321	31.7.33	12½	8,156	3·77	307·73	350	Mature	248, 384 ..	Hero of Lemon Grove
†Parkview Queenie ..	5098	3.8.33	4	8,190	3·81	312·15	290	Sr. 3	397 ..	Jean's Monarch of Blacklands
Rosemont Birdie 4th ..	2863	3.8.33	20	8,435	3·60	303·27	330	Sr. 4	231, 345 ..	Flora's Boy of Rosebank
White, Russell, Cardigan, Ayrshire (2).										
Ayrvale Breta	24567	10.9.33	10	5,130	3·89	199·52	250	Sr. 2	248 ..	Sir Percy of Sparrovale
The Valley Pavlova ..	26772	11.9.33	6½	7,125	3·90	278·22	230	Jr. 2	.. ..	The Valley Bandolier
Williams, F. A., Bamawn, Jersey (5).										
Leven Brae Daisy Grey ..	28924	24.8.33	16½	7,931	5·50	435·82	350	Mature	309, 382, 438, 532	Twylish Fox of Colac
Ballara Garenne's Fancy 6th	38780	29.8.33	18	7,152	6·17	441·37	230	Jr. 2	.. ..	Brucevale Lord Fancy Madeira
Avalon Gladstar's Pansy ..	28399	3.9.33	17	7,595	5·68	431·12	350	Mature	399, 378, 519	Gladiator of Springhurst
Mornmoot Mascot ..	28555	9.9.33	20	8,238	5·52	455·11	330	Sr. 4	414, 450 ..	Koomangoonong Prince Nephetos
Taranah Hazel	38529	14.9.33	15	7,236	5·54	400·90	250	Sr. 2	364 ..	Duke of Invermay
Wilmot, J., Bullarook, Jersey (4).										
†Princess Jessie of Uphaven	16767	5.8.33	4	4,215	4·84	204·03	350	Mature	390, 406, 348	Jessemia's Imperial of King's Vale
Uphaven Miss Grant ..	42333	21.8.33	18½	7,421	4·57	339·07	250	Sr. 2	330 ..	Grant's Twylish of Merivale
Uphaven Tulip	38540	3.9.33	11½	7,247	4·98	361·17	310	Jr. 4	383, 395 ..	Grant's Twylish of Merivale
Uphaven Bluebell ..	Vol. 21	17.9.33	13	4,689	6·24	292·38	230	Jr. 2	.. ..	Wompini Royal Master
Wilson, D. C., Derrinallum, Jersey (2).										
‡Ayton Law Queenie ..	33922	28.6.33	4	5,200	4·72	245·19	270	Jr. 3	270 ..	Wagga Yambil's Goddington Noble
§Silvie's Fern of Kinross ..	21751	22.8.33	4	4,853	5·32	258·18	350	Mature	357, 424, 355, 401, 373	Last Call of Melrose
Wood, C. J., Frankston, Jersey (6).										
Glady's Park Needle's Beauty	38547	6.7.33	13	5,973	4·98	297·50	270	Jr. 3	.. ..	Leathorn Maid's Chief
Walbundry Beta 2nd ..	37496	12.8.33	9½	3,824	4·99	190·93	250	Sr. 2	233 ..	Walbundry Rochdon
Glady's Park Twinkle's Violet	38548	19.8.33	6½	4,214	5·81	245·00	250	Sr. 2	.. ..	Werribee Bluebell's Masterpiece
Avalon Noble's Duchess 2nd	36832	22.8.33	8	4,449	5·85	260·17	250	Sr. 2	.. ..	Noble of Avalon
Hazeldale Rarity 4th ..	33506	31.8.33	6½	4,403	5·20	229·01	330	Sr. 4	.. ..	Dinkum of Banyule
Hazeldale Rarity 3rds Charm	25554	9.9.33	13	6,403	5·19	332·23	350	Mature	336, 348 ..	Lord Mannikan of Hazeldale
Wood, J. V. M., Heidelberg, Jersey (14).										
Clarendon Eyre Camille 5th	Vol. 21	10.7.33	15	5,492	6·36	349·41	230	Jr. 2	.. ..	Clarendon Eyre Eminents Melody
Clarendon Eyre Pinafore 5th	Vol. 21	16.7.33	16	6,453	5·73	369·77	230	Jr. 2	.. ..	Clarendon Eyre Eminents Sorcerer
Clarendon Eyre Sweet Lavender (Imp. in Dam)	42702	19.7.33	9½	5,033	5·73	288·36	230	Jr. 2	.. ..	Lord of The Isle
Clarendon Eyre Rose Marie 5th	Vol. 21	21.7.33	19	6,632	6·05	401·42	230	Jr. 2	.. ..	Clarendon Eyre Eminents Achievement
Clarendon Eyre Merry Widow (Imp. in Dam)	42701	21.7.33	14½	4,483	6·03	270·34	230	Jr. 2	.. ..	Viscount of Les Jardin
Tressie of Sunnyford ..	16766	27.7.33	19½	7,575	5·46	413·50	350	Mature	199, 402, 461, 527, 527	Sparkle's Chief (961)
Clarendon Eyre Love Lies (Imp. in Dam)	42700	6.8.33	15	6,734	4·90	329·79	230	Jr. 2	.. ..	Spotted Royal
Clarendon Eyre Desert Song (Imp. in Dam)	42699	7.8.33	10	5,552	5·05	280·36	230	Jr. 2	.. ..	Anemones Lily Oxford

* 248 days in test. † 240 days in test. ‡ 250 days in test. § 210 days in test.

Standard Herd Records—*continued.*

Name of Cow.	Herd Book No.	Date of Calving.	Milk last day of Test. lb.	Milk.	Average Test. lb.	Butter Fat. lb.	Standard required.	Class.	Previous Yields of Butter Fat.	Sire.
Wood, J. V. M., Heidelberg, Jersey—*continued.*										
Clarendon Eyre Emerald Isle	33943	7.8.33	14	7,216	5·66	408·33	290	Sr. 3	367, 432 ..	Clarendon Eyre Eminents Achievement
Lightsome Bart (Imp.) ..	33957	14.8.33	21½	8,958	4·97	445·16	290	Sr. 3	295, 418 ..	Lily Lights Oxford
Lily Christabel (Imp.) ..	33958	17.8.33	26	8,834	5·31	468·84	290	Sr. 3	360 ..	Oxford Sultan's Observer
Clarendon Eyre Emerald Isle 2nd	39248	14.9.33	17½	7,175	4·66	334·64	270	Jr. 3	355 ..	Eminents Achievement of Clarendon Eyre
Clarendon Eyre Happy Days	29619	15.9.33	31½	11,132	4·96	551·84	350	Mature	434, 599 ..	Eminents Achievement of Clarendon Eyre
Clarendon Eyre Gaiety Girl	29618	19.9.33	19	8,249	6·02	496·57	350	Mature	272, 460, 511	Rose's Eminent of Clarendon Eyre
Woodmason, W., Oakleigh, Jersey (1).										
Rarity 14th of Melrose ..	19978	7.7.33	N.O.C.	7,892	4·60	363·26	350	Mature	448, 449, 395, 454, 435, 428	Golden Fern's Viscount
Xavier College, Kew, Jersey (6).										
Hartland's Merry Tex ..	C.R.	30.7.33	13	4,889	5·40	263·78	230	Jr. 2	.. ..	Merry Boy of Kirkhill
Jerseylea Cherry ..	C.R.	10.8.33	13½	4,701	5·61	263·92	230	Jr. 2	.. ..	Jerseylea Thorn
Jerseylea Field Lark ..	40396	15.8.33	15	4,917	5·65	277·75	250	Sr. 2	.. ..	Jerseylea Thorn
Rintoul View Sapper's Daughter	Vol. 21	3.9.33	12	4,415	5·49	242·49	230	Jr. 2	.. ..	Sapper of Rintoul View
Brookfield Golden Leaf 15th	33581	10.9.33	13½	5,544	5·40	299·40	310	Jr. 4	261 ..	Sweetbread's Duke of Glen Iris
Gnarbrook Cosmos ..	33027	24.9.33	13½	5,346	6·00	320·71	330	Sr. 4	.. ..	Werribee Masterful

CORRECTION.

In this Journal for June last, the total butter fat for Mr. A. A. McInnes' senior 2-year old Lockness Roseleaf, was stated as 250·78 lb. The amount should have been given as 278·50 lb.

Omitted from return for Quarter ended 31st March, 1934—

E. M. Middleton, Hamilton, Jersey.

Strathkellar Well ..	42037	23.4.33	15½	4,353	5·06	220·11	230	Jr. 2	.. ..	Somerville Air Pilot

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When your Spring Spraying Schedule requires oil sprays, it will pay you to include only the best—

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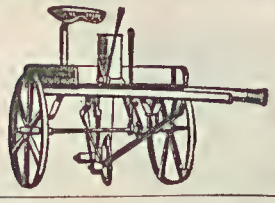

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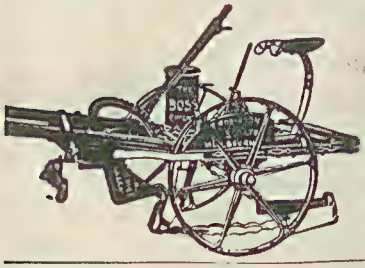

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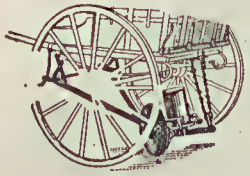
A splendid poison cart for rough conditions. When poisoning work is finished, mechanism is easily detached from frame, and cart usable for other farm purposes.



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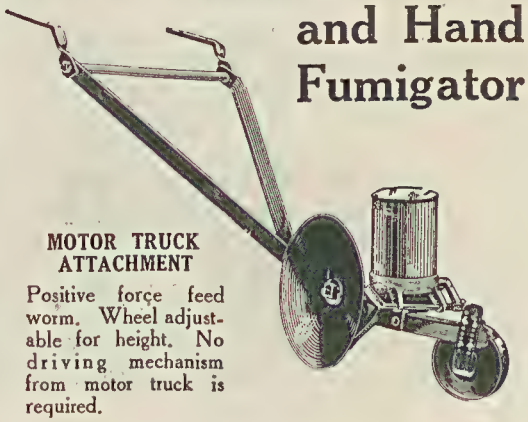
For attaching to any spring cart or sulky on the farm. Very popular in rabbit-infested country.



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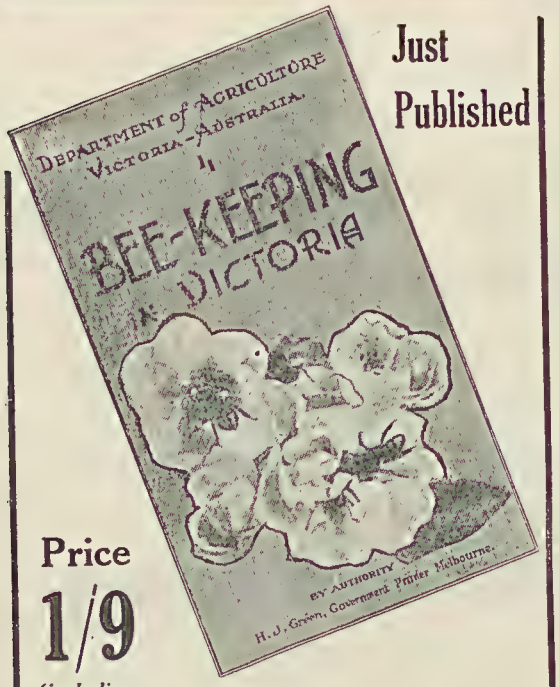

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The Victorian Department of Agriculture has for sale a quantity of HICKORY PRYOR tobacco seed grown in Western Australia in a district free from Blue Mould.

GOVERNMENT OF WESTERN AUSTRALIA.

DEPARTMENT OF AGRICULTURE,
PERTH, MARCH, 1934.

This is to certify *that the tobacco crops grown by Mr. S. James, "Abbeyholme," Mt. Ba[illegible], during the 1932-33 season, were inspected by an officer of this Department and were found to be quite free of any evidence of "downy mildew" (so-called "blue mould") caused by* Peronospora tabacina *Adam. To the best of our knowledge and belief, the above-mentioned disease has never made its appearance on Mr. James's property, which is very well isolated from the recognized tobacco-growing areas.*

(Sgd.) *H. A. PITTMAN,*
Plant Pathologist.

This seed is being made available to Victorian tobacco growers at 2/- per oz.

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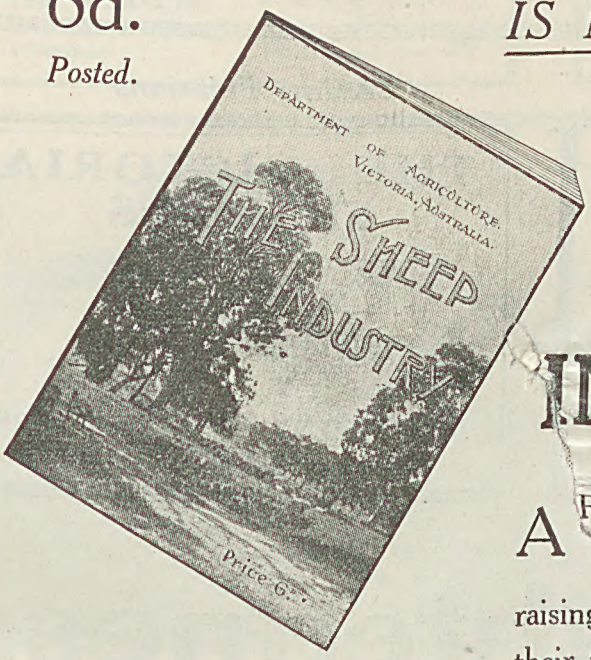

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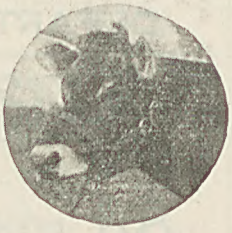

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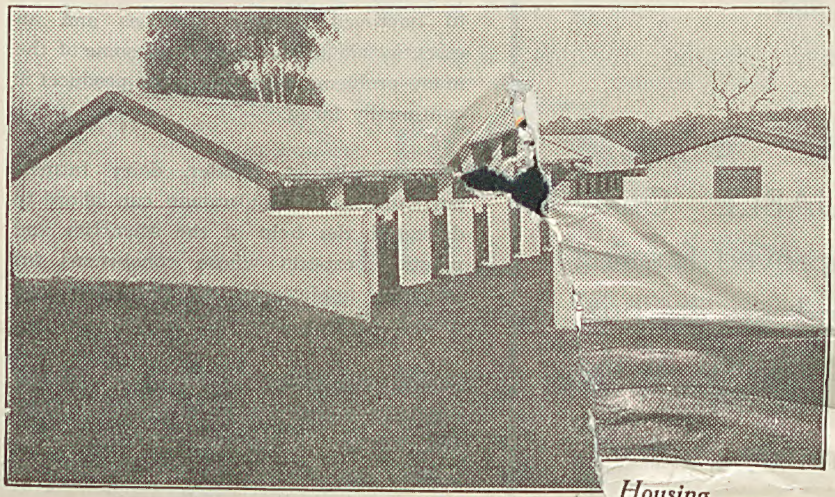

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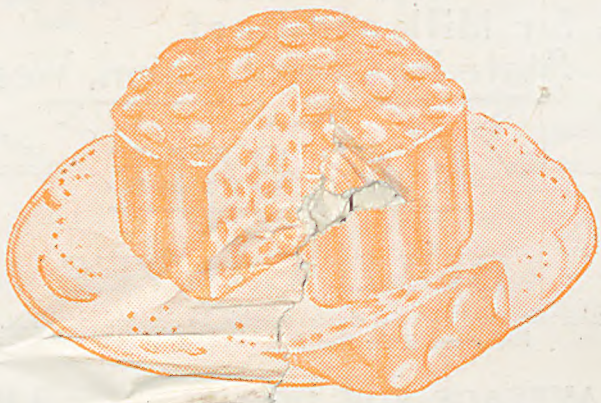

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Plai **Fruit Cake.**

6 oz. butter
6 oz. sugar
3 eggs and a little mil
6 oz. plain flour

6 oz. self-raising flour
6 oz. sultanas
6 oz. currants

Cr eam butter and sugar, add eg
mi lk with a few drops of esse
th e sifted flour, and then ad gs one at a time, and beat in well; add
Di reased tin, lined with pape e of vanilla or almond. Mix fruit through
adually to the butter mixture. Put in a
1 ½ hours. Half a nutmeg gra and bake in a moderate oven (375°) for
as a c or a teaspoon of cinnamon may be used
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